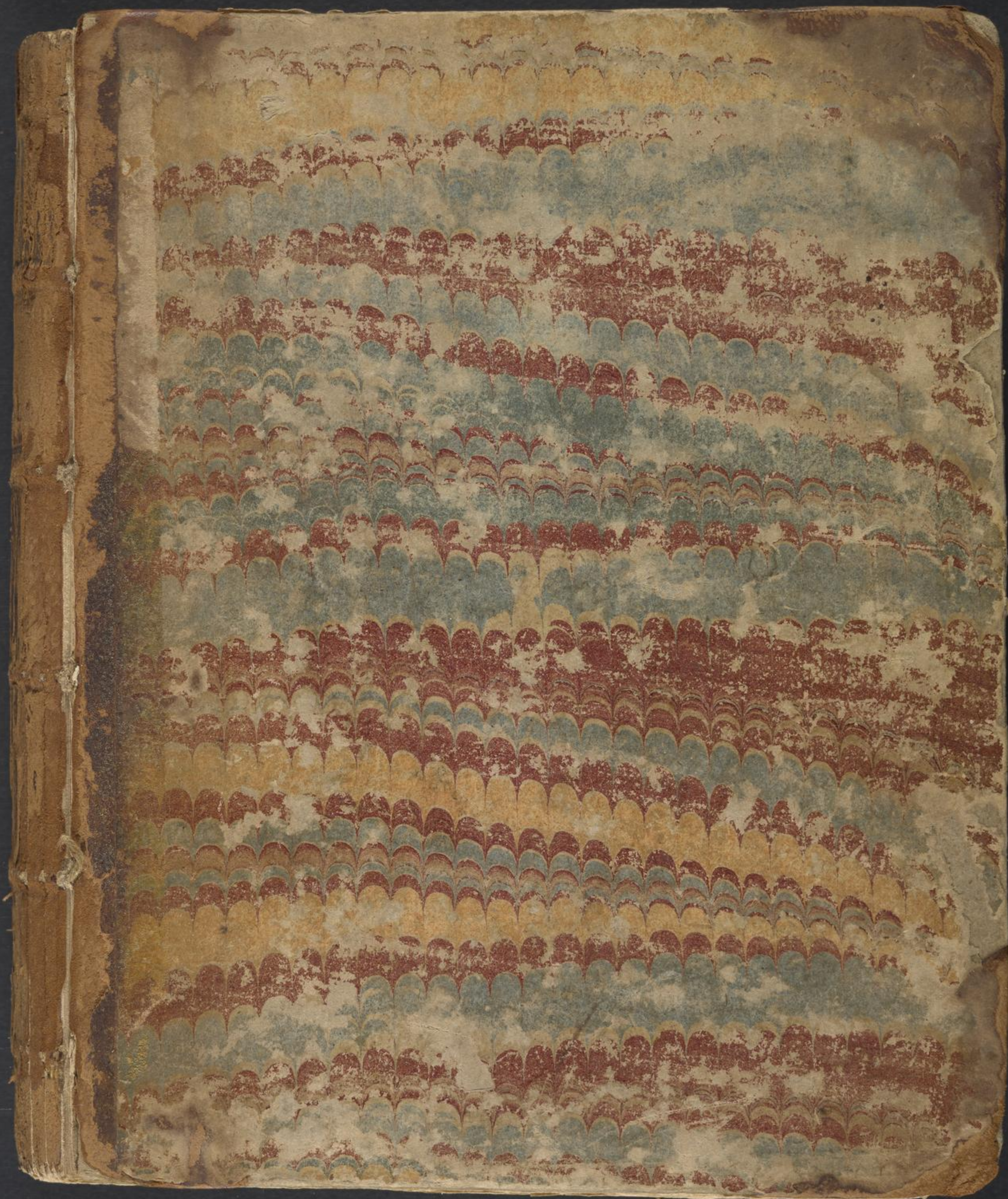




Anthelmintics Dr. Kuhn 293.

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x Ambitious; they are proud & vengeful, inclining to many diseases, but commonly live to a good old age. Of a darkish color & full visage - body solid - quick & hard pulse &c.

If a woman her menses begin at y^e full & last 5 or 6 days. Color full red. This joined with a sanguine last 6 or 7 days - with a phlegmatic 5 days - with a melancholic 4 or 5 days.

3. Melancholy. This temperament consists in a redundancy of y^e earthy principal, w^h makes the blood thick & heavy, its nature cold & dry. The person is covetous & a great miser never getting enough of y^e world - Whimsical, great workers, & more liable to forgive than forget an injury, inclining to Venus, & keep their own secrets; they are very still, talk but little & think a great deal; their color a drab ye llow, full in the face but lean in other parts, Veins big, pulse heavy & slow; they are mostly inclining to y^e Colic, Gravel, stone, sciatica &c. if a woman to the back ach & affectus uterinus, her Catamenia begins with w^h Novi Lunum or Menstrua & lasts 3 or 4 days, - color a light black & thick. Joined with a phlegmatic it lasts 2 or 3 days.

4. Phlegmatic. This temperament proceeds from a redundancy of watery particles in y^e blood; such people are sleepy, lazy, clumsy, hard to be instructed, eat & drink a great deal hold in y^e God & Church in great veneration - are little concerned about y^e things of y^e world. Their conversation disagreeable & not at all complaisant. Color white, flesh soft & watery substance high. Veins & arteries weak & slow pulse, & big bellied & more inclining to sickness than any other temperament. Can never well, particularly liable to edematous & dropical swellings, Diarrhoea &c.

A Medicus five Physician should be
modest sober & humane, & should be well acquaint-
ed with the nature & changes of y.^e human body,
Pharmacy &c.

It is observed that the first seven years disorders
in children are on the head, from that to 20 in the
breast, from that to 30 or 40 in the Abdomen - and
old age in the extremities; the reason of w.^h is because
the wonderful Anthropogenesis of the mechanism
of the human fabric is thus formed (viz) 1 The Head
2 The Thorax 3. The Abdomen, & lastly the extremities.

Each age has its affection or inclination, e.g. children
sleepy, Vain, Wild & love sweet things; Young people
Ambitious, choleric, talkative, impatient & careless;
Manhood careful, Ambitious, sound Judgement & memory,
Old age mistrustful, covetous, easily deceived, solitary
& still.

The effects of these changes are different diseases & altera-
tions of y.^e mind.

In the human constitution there is 1.st The Vis Rationis &
Judicii, this is seated in the Brain & is that whereby we
Judge act & conceive things. 2.nd Vis Animalis this is
the Nervous fluid or Ether, & is y.^e cause of sense motion
& y.^e Animal functions. 3.rd Vis Vitalis is in y.^e Mappa-
quina & is y.^e cause of life warmth & growth.

Temperamenta. The Microcosmical machine
is composed of soul & body.

The soul is a Metaphysical substance or being the principal of life, immortal, & capable of enjoying & suffering after its dissolution from the body.

The body is a compound of matter & form, composed of the four elements, Fire, air, Earth & Water artfully combined & in w. is contained the Succus Nutritia, & y^e blood w. contains heterogeneous particles of Sulphur oil Earth & water; from the various combination of y^e heterogeneous particles in w. body proceed y^e several Temperaments complexions or constitutions, w. physicians have reduced to 4 primary ones (viz).

1. Sanguine. 2. Choleric. 3. Melancholy. 4. Phlegmatic.

In this Microcosmical habitation y^e soul has its dwelling residing in y^e animal & Vital spirits, & continually moving therein with this influence of y^e soul & animal Economy forms what's called animal nature.

1. Sanguine. This Temperament proceeds from a redundancy of oily & sulphureous particles in y^e blood w. makes it look florid, y^e body lively & warm, full of transpiration; the person is airy, inclining to pride, vanity, ready wit, but apt to forget. Friendly, polite, full hearted, fraternal, quick in action &c. Body full & vigorous, redish complexion, & feel warm; Pulse goes hard. If a woman her menses are discharged at a full moon, of a good red color & ordinarily hold for 5 days; if joined with a phlegmatic they last 6 or 7 days. Nature hot & moist.

2. Choleric. This Temperament proceeds from an abundance of sulphureous & fiery parts in y^e blood w. makes it acid, & its nature hot & dry - The person is fiery, very passionate, but is soon over & then cannot bear malice; quick in action & often sorry for things past, because their senses are so quick that it gives them no time to consider y^e consequences of a thing before they do it. Selecting & ought not to be too much depended upon; the best they are true affectionate, trusty, faithful & ambitious.

Lecture 1.st 14.th Feb.^{ry} 1766

Gentlemen. Of The Materia Medica.

Materia Medica comprehends all substances used either in Diet or Medicine; for the preservation of Health, or curing diseases.

Medicine has been divided by some into three parts, viz^t Chirurgie, Dietetic, & Pharmaceutic. The materia medica being included in the last part, but as it is as necessary to know what substances are fit for diet as well as for Medicine & many medicines may be made of Dietetics, I shall, include both the latter under the materia Medica, according to the above Division thereof. Each substance will be considered in 4 lights & viz: 1.st A knowledge of the subject, or a kind of natural history thereof, 2.^d its use in Diet or medicine, 3.^d the operation of the medicine in the human body, & 4.th The Pharmaceutic preparation thereof.

1.st A knowledge of The subjects; these are of two

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kinds 1st of natural substances; A knowledge of these depends upon our knowledge of natural history in general. 2^d of Artificial substances, these are such as come thus prepared for medical use as soap, Vitriol, Metals, &c:

The substances used in medicine being many a systematic method of ordering & classing them is very necessary in order to become properly acquainted with the materia Medica. (a knowledge of the substances is best acquired by frequent seeing & handling them.)

Many methods have been invented for the arranging of bodies; some from their apparent operations have ranked them under the heads of Emmollients, Maturants, Laxatives &c: but this method unless attended to with the particular Indications of Diseases proves fallacious, others rank them from their being supposed specifics in particular diseases, or applied to particular parts, thus calling them Antiepileptics, Cephalics Vulneraries &c:

Dr Lewis in his materia Medica has treated it Alphabetically, this is of advantage in consulting it

5

Dictionarywise, Linnaeus has ranked all substances in a claspic manner upon a supposition that all those bodies of the same class have nearly the same virtues; but this will not hold true, but in a very few instances. Geoffroy & Neuman have endeavored to find out the virtues of medicines by various chemical treatments thereof. - Gartheuser has arranged the objects according to their virtues or operations in particular Indications this seems to be the best method & that which I shall follow, being also best fitted to the memory. We are subject to be deceived in the operations of medicines many ways, as, trusting to the ancients recommending them and other authors, we are also liable to be deceived by the patients themselves giving us a false account of their operation or hiding the symptoms; by ascribing the effects to a wrong medicine, & by the disease itself: for giving a medicine at the crisis of a Disease the same having no effect yet the patient may grow better, and they ascribe that to the medicine which nature alone did.

The operations of medicines proceed not from

x when from the diagnostics of a disease we have learnt its particular state, increase & the part affected & the matter that offends in the said part & have formed a prognostic what is to be hoped for & what to be feared: & then too from all these concluded what things are to be done: these are called the things indicated & the knowledge thus produced in the Physicians mind is termed the Indication.

Vanswieten vol 1

matter & motion only, but from the particular⁷
disposition of the Vessels & fluids of the body at
that particular time, to bring about such a
particular effect or change, hence the necessity
of being well acquainted with the vital
motions & animal Economy.

Lect 2.^d Of Indications

Indication is a rule arising from the
knowledge of the disease, & the remedies applied
is such case is called the Indicata, & y^d. symptoms
inducing the same is called the Indicans. +

Medecine act on the simple or moving fibres
or on the fluids & may be classed as following:

Med
acting

Medicines acting upon

The fibres or moving

Simple

are call'd

Nutrientia - 1
Astringentia - 2
Emollientia - 3
Stimulenta - 4
Sedativa - 5
Antispasmodica 6

as alterants

Attenuantia - 7
Inspissantia - 8
Daruulcentia 9
Antacida 10
Antalkalina 11
Antheptica 12

Thuids or

call'd

Emacuants

Errhina - 13
Sialagoga - 14
Expectorantia 15
Emetica - 16
Cathartica - 17
Diuretica - 18
Diaphoretica 19
Menogoga 20

10 * Medicines act either upon the solids or
fluids or on both at the same time
1. On the Solids as Stimulants, Astring-
ents, Laxants, Serients, Erodents,
Anodynes &c. 2. On the fluids either
by lessening their quantity, or by
changing their quality. By lessening
their quantity as all Evacuants viz:
Emetics, Salagogues, Emetics Cath-
artics, Menagogues, Diuretics, Diaphore-
tics &c. altering the fluids in their
quality as Diluents, Resolvents, Incref-
cants, Antacids, Antiseptics. 3. Operating
upon the solids & fluids at the same time
as many of the foregoing classes esp-
ecially Evacuants likewise Attrahents,
Repellents, Calescients, Refrigerants,
Discutients, Materants, Detergents
&c. to which may be added those called
specifics; but local terms as Cepha-
lics, Cardiacs, Pectorals, Hepatics
&c. ought to be discarded.
alstoni Opermed:

bende the preceding some have reckoned ath
third class, w^{ch} act upon both the solids^{& fluids} at the same time.

Medicines acting upon the solids are, according
to the preceding table, of two kinds, 1st upon the
simple fibres 2^d upon the moving fibres. The
simple fibres according to Boerhaave, are subject to
Laxity, Rigidity, & Debility.

The first grand division of substances is
into Diet and Medicine — Nutrientia are
not properly medicines serving for food mostly;
Astringents are used in Laxity of the fibres; &
in rigidity of them such medicines must be used
as often & diminish the cohesion as Emollientia.

The moving fibres are subject to three dis-
eases viz: Debility, 2^d Motion too much increased,
3^d an irregularity of motion, the first requires
stimulants, the 2^d Sedatives & the third
Antispasmodics.

The fluids are acted upon two ways by
Stimulants & Evacuants

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The first when the ^{blood} body is either too thick, too¹³
thin or Cacochymiac: in a thickness or Lentor
of the blood Attenuants are req^d. In a too
thinness of the blood Inspissantia are requir^d.
& in a cacochymy, if acrid Demulcentia, if acid
Antacida, if alkaline, Antialkalina & if putrid
(the last degree of alkalescency) Anticeptics are
required.

Evacuants are such medicines as discharge
particular humors from the body & thence hav-
e their names as Eruthina 2. Sialagoga 3. Expec-
torantia 4. Emetica 5. Cathartica 6. Diuretica
& Diaphoretica, these are all performed by
means of an increased secretion, but S. Mena-
goga operate by increasing or attenuating
the blood or the motion thereof.

Synonymous Terms.

To Nutrientia are Restoratives & analeptics ~
To adstringentia are Exiccantia, Durantia, Astringents
& Tonics
To Emollients are Laxantia & Humectantia &c.

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To Stimulantia are Caliginentia ~ 15

Attrahens has 3 subdivisions 1st such as preserve heat 2^d such as increase heat in any part, these are called Rubifacientia 3^d Raises Blisters & are called Vesicatoria & sometimes Epispastica. To Sedatives are Synonymous Anodynes, Hypnotics Somniferous Laporifics, & Purgatives.

To Antispasmodics are synonymous Carminatives.

Of those that act upon the Fluids

To attenuants are Diluentia Incidentia & Resolventia

To Inspiscantia is Incrassantia &c.

To Demulcentia are Antacrida, Lenientia, Temperantia

To Antacida are absorbentia & Immutantia

To Eorhina are Sternutatory & Apophlegmantia

To Menagoga is Aristolochica.

Of Improper terms

Medicines that remove obstructions have been called Aperients & Deobstruents but these ^{terms} are too vague. In surgery in the treatment of Tumors the

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the 1.st Intention is to disperse them, hence Discutients¹⁷
Resolvents & Repellents 2.^d Intention is to bring them
to a suppuration, hence suppurants Maturing¹⁸
3.^d Intention is to digest the pus, hence Digestives
Detergents & Mundificants 4.th Intention is to
renew the lost substance this is chiefly performed
by nature however they have Sarcotics and 3.th
Intention is to consolidate the wound, hence
Consolidants Agglutinants & Vulneraries, but
all these terms are either too general or Imp-
proper & uncertain. The Last Intention is to
heal the wound hence Epulotica and
Sicatrizantia.

of supposed specifics; these are of two
kinds. 1.st Local. 2.^d for particular Diseases.
1.st of Local specifics these are many, as Cephalics
Ophthalmics, Pneumonics, Pectorals, Stomacics,
Hepatics, Splenitics, Nephritics, Uterines &c.
2.^d For particular diseases we have Antiepileptics
Antimanacs, Antihypochondriacs, Anticachectics,

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Anifebrilia, Galactifera, Antigalactifera.
Thus I have given you an account of most of the
terms used, many of w^{ch} depending upon a wrong
Theory convey false Ideas & therefore should
be discarded!

Lect. 3. Febr. 7 19th

Class 1st Nutrientia

Gent^l^m

The substances of this class are used by
men for their daily food & therefore includes
all those substances that may be converted to our
nature & made fit to repair the constant waste of
the body. Aliments differ in two respects: 1st in their
being already animalised & as the flesh of animals,
& secondly requiring a considerable change be-
fore they are assimilated to the animal body, as
all vegetable substances; & as the food of all anim-
als is derived from vegetables, or from other ani-
mals w^{ch} derived therefrom, we shall be-
gin with vegetable Aliments

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Vegetables particularly proper for the aliment
of man are all mild sweet temperate & agreeable
ones, & all acrid bitter & disagreeable vegetables
are unfit for food: it is true we use some ac-
rid substances such as mustard &c: but they are
not at all nutrient & serve only for Condiment
or sauce. It is hard to know what substances
are particularly fit for the food of all animals;
Different animals requiring different kinds
of aliment; this seems to arise chiefly from
a difference in the Digestive faculties, & hence
we may account for men's desiring different kin-
ds of food from the same cause Different climates
likewise make a considerable difference also.
It appears however from experience that the
saccharine & oily parts of a plant blended to-
gether are most fit for nourishment.

The changes our food undergoes in the body
are three viz: Assimilation, Solution, & mixture.
Assimilation is brought about by Digestion

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in the stomach; if the stomach is weak ^{it} ~~is~~ ²³
subject to a too great quantity of Acidities
w^h makes a too active fermentation therein,
discharging the mephitic air in too great
quantities or what is by some called the
Gas Sylvestre which is the cause of many
Diseases, as Epilepsies, Apoplexies, &c.

The morbid state of the aliments in the
body is owing to the Aliments themselves
or to a depraved disposition of the stomach.
Acrescent fruits should be avoided by those that
have weak stomachs, as they naturally incline
to a too active fermentation.

Solution depends upon the consistence
of the body to be dissolved, the pulpy part of
vegetables only being soluble in the primee
vie & in proportion to the solubility of
substances will the body be nourished by
them.

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miature readily takes place in the body in a
sound state: too great quantities of oily bodies howe-
ver do hurt for the oil out of the body is mi-
.d distops fermentation, yet when in the body
it soon grows acrid & produces the Cardialgia
& Eructations.

An Idiosyncrasy is evinced, from the
stomach's immediately ejecting honey, Eggs,
shellfish &c. as soon as eaten by some persons,
it is also evident from this that the stoma-
ch is very sensible by sympathy with other
parts, & from this sensibility we may accou-
nt for the nausea's & even vomiting from
the smell or Taste of Disagreeable Substances,
therefore in chusing food we should have reg-
ard to the Idiosyncrasy & sensibility of the
Stomach.

It is observed that a small fever mostly
comes on about 3 or 4 hours after eating, for
any one that will takes the pains will find

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That in that space after dinner the pulse Ceteris
paribus is always increased, this is caused by
the fermentation of the aliments & in a small
degree is salutary.

The nutrient class is primarily divided in:
to animal & vegetable substances.

of Vegetable Substances

The first are Fructus acido dulcis; These are
distinguished by Linnaeus as follows. They are
either fresh or dry. (a) Drupaces or stony
fruits, these are cherries, apricots, Peaches,
Prunes &c. the virtues of these & all other
fruits depend upon 4 principles viz: Acerbity
Acidity, Sweetness, & Stiffness of Texture.
Acerb fruits are astringent cooling & stop
the peristaltic motion of the Intestines &
thereby cause an accumulation & retention
of hardened feces. Acid fruits are refrigerant:
they weaken the stomach & are apt to produce

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a too active fermentation (sweetness is the
only nutrient quality in vegetables; this sweet-
ness changing into a kind of acid w^h mixing w^h
th^e the bile & pancreatic Juice forms a tertium
quid w^h stimulates the Intestines to a discharge
of their contents) Different texture of bodies;
those that are loose in their texture are most nutrient.

Stone fruits are of a loose texture easily
soluble in the stomach & we are apt to eat too
much thereof: they are also apt to ferment in
the stomach & generate an acid, w^h stimulating
the Intestines perhaps produce Diarrhea's, Cholera
Morbus &c: some have reckoned swallowing the
stones might prevent these ill consequences, but
it don't appear, & its more likely they may
cause some bad effects. (6) Pomace
are apples Pears &c: these are more dilute
than the preceding & also subject to acidity;
but mostly of a harder texture & therefore
continue longer in the stomach: Pears being

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specifically heavier than water settle to the bottom of the stomach & soon pass off, & being sweeter than apples are more nutritive & less subject to an active fermentation apples contain a great deal of air, & therefore apt to produce flatulencies.

(c) *Hesperides* are Lemons, Oranges, &c. these are subject to fermentation & good in fevers.

(d) *Senticosa** are strawberries, Raspberries, grapes, currants, gooseberries &c. with these at least some of them, we often use some condiment as Pepper Butter Salt &c. & wine as being already pure & fermented is often used to prevent the bad effects of these & other substances.

Some have made it a question whether it is better to eat fruit before or after a meal, but in strong stomachs it makes but little difference whether they are taken before or after.

Lect 4.th

Dry Fruits, are grapes, Dates, figs &c. these

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are less liable to an active fermentation than
fresh fruits as the acid is partly dissipated.
Of dried grapes there are two kinds Raisins &
Currants, the latter contains the most acids
& the most Laxative, perhaps the sugar they
contain makes them so, they are accounted good
Dates are of different kinds acerb & but little
used at present giving way to Figs which are
reco~~med~~ much better, being Demulcent & He-
phritic & used in Pectoral Apozems.

The 2 are Fructus Cucurbitata, these are
cucumbers, Melons, & Pumpions, they have
mostly in insipid juice, but subject to aciden-
cy & thence may produce Diarrhea's & Bil &
Peppes are used with Cucumbers to prevent this
bad effect. Mellons are sweeter & more mell-
ow than Cucumbers & containing more sug-
ar are easier digested, they are reco~~med~~ diure-
tic. Pumpions are somewhat insipid & require
boiling.

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The first part of the paper is devoted to a discussion of the general principles which govern the action of the mind upon the body. It is shown that the mind is not a passive organ, but one which actively influences the body, and that the body in turn influences the mind.

In the second part of the paper, the author discusses the various faculties of the mind, such as perception, judgment, and reasoning. He shows how these faculties are developed through the influence of the environment, and how they are used by the mind to acquire knowledge and to guide its actions.

The third part of the paper is devoted to a discussion of the moral principles which govern the conduct of man. The author shows how these principles are derived from the laws of nature, and how they are applied by the mind to guide its actions.

In the fourth part of the paper, the author discusses the various diseases of the mind, such as insanity, melancholy, and dementia. He shows how these diseases arise from a disturbance of the normal functions of the mind, and how they can be treated by restoring the mind to its normal state.

The fifth part of the paper is devoted to a discussion of the various diseases of the body, such as fever, inflammation, and cancer. The author shows how these diseases arise from a disturbance of the normal functions of the body, and how they can be treated by restoring the body to its normal state.

The sixth part of the paper is devoted to a discussion of the various diseases of the system, such as syphilis, gonorrhea, and venereal disease. The author shows how these diseases arise from a disturbance of the normal functions of the system, and how they can be treated by restoring the system to its normal state.

The seventh part of the paper is devoted to a discussion of the various diseases of the organs, such as pneumonia, pleurisy, and tuberculosis. The author shows how these diseases arise from a disturbance of the normal functions of the organs, and how they can be treated by restoring the organs to their normal state.

The eighth part of the paper is devoted to a discussion of the various diseases of the tissues, such as scurvy, scorbutus, and beriberi. The author shows how these diseases arise from a disturbance of the normal functions of the tissues, and how they can be treated by restoring the tissues to their normal state.

The ninth part of the paper is devoted to a discussion of the various diseases of the fluids, such as dropsy, ascites, and edema. The author shows how these diseases arise from a disturbance of the normal functions of the fluids, and how they can be treated by restoring the fluids to their normal state.

The tenth part of the paper is devoted to a discussion of the various diseases of the bones, such as rickets, osteoporosis, and osteomalacia. The author shows how these diseases arise from a disturbance of the normal functions of the bones, and how they can be treated by restoring the bones to their normal state.

The eleventh part of the paper is devoted to a discussion of the various diseases of the muscles, such as paralysis, atrophy, and hypertrophy. The author shows how these diseases arise from a disturbance of the normal functions of the muscles, and how they can be treated by restoring the muscles to their normal state.

The twelfth part of the paper is devoted to a discussion of the various diseases of the skin, such as eczema, psoriasis, and leprosy. The author shows how these diseases arise from a disturbance of the normal functions of the skin, and how they can be treated by restoring the skin to its normal state.

The thirteenth part of the paper is devoted to a discussion of the various diseases of the hair, such as alopecia, trichotillomania, and hirsutism. The author shows how these diseases arise from a disturbance of the normal functions of the hair, and how they can be treated by restoring the hair to its normal state.

The fourteenth part of the paper is devoted to a discussion of the various diseases of the nails, such as onychomycosis, paronychia, and nail dystrophy. The author shows how these diseases arise from a disturbance of the normal functions of the nails, and how they can be treated by restoring the nails to their normal state.

The fifteenth part of the paper is devoted to a discussion of the various diseases of the teeth, such as caries, periodontitis, and pulpitis. The author shows how these diseases arise from a disturbance of the normal functions of the teeth, and how they can be treated by restoring the teeth to their normal state.

The sixteenth part of the paper is devoted to a discussion of the various diseases of the mouth, such as stomatitis, gingivitis, and leukoplakia. The author shows how these diseases arise from a disturbance of the normal functions of the mouth, and how they can be treated by restoring the mouth to its normal state.

The seventeenth part of the paper is devoted to a discussion of the various diseases of the throat, such as tonsillitis, pharyngitis, and laryngitis. The author shows how these diseases arise from a disturbance of the normal functions of the throat, and how they can be treated by restoring the throat to its normal state.

The eighteenth part of the paper is devoted to a discussion of the various diseases of the lungs, such as bronchitis, emphysema, and asthma. The author shows how these diseases arise from a disturbance of the normal functions of the lungs, and how they can be treated by restoring the lungs to their normal state.

The nineteenth part of the paper is devoted to a discussion of the various diseases of the heart, such as coronary artery disease, congestive heart failure, and arrhythmias. The author shows how these diseases arise from a disturbance of the normal functions of the heart, and how they can be treated by restoring the heart to its normal state.

The twentieth part of the paper is devoted to a discussion of the various diseases of the blood, such as anemia, leukemia, and lymphoma. The author shows how these diseases arise from a disturbance of the normal functions of the blood, and how they can be treated by restoring the blood to its normal state.

The twenty-first part of the paper is devoted to a discussion of the various diseases of the immune system, such as autoimmune diseases, allergies, and immunodeficiency disorders. The author shows how these diseases arise from a disturbance of the normal functions of the immune system, and how they can be treated by restoring the immune system to its normal state.

The twenty-second part of the paper is devoted to a discussion of the various diseases of the endocrine system, such as diabetes mellitus, thyroid disease, and adrenal disease. The author shows how these diseases arise from a disturbance of the normal functions of the endocrine system, and how they can be treated by restoring the endocrine system to its normal state.

The twenty-third part of the paper is devoted to a discussion of the various diseases of the reproductive system, such as infertility, prostate disease, and gynecological diseases. The author shows how these diseases arise from a disturbance of the normal functions of the reproductive system, and how they can be treated by restoring the reproductive system to its normal state.

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3.^d *Herba Oleracea*, as *erach*, ³⁵ *Beets*
spinach, *Lettuce*, *Asparagus* &c: These afford
but little nourishment & are reckoned *Lacative*
in a small degree, *Cabbage* & garden *Cresses*
are much used in food by boiling they loose thi-
er *Acrimony*, *Bolewarts*, *Colly flowers*, *Indives*,
Lettace & *celery* are mostly *Acrid*, requiring
blanching before they are fit for food, *Aspara-*
-gas is used when very young for when it grows
old it is very *acrid*.

4 *Tungi* the part above ground is used,
of these there are reckoned three distinctions viz:
Truffles *morels* & *Mushrooms*. *Truffles* are
sometimes eaten & are perhaps the most *Aphe-*
:odisiac of any vegetable what ever: of *Morels*
there are two species viz: *Tordidus* & *Pallidus*.

Mushrooms are mostly *esculent* when young
& are very nutritive to strong *Stomachs*, in
warm *Climates* they are much eaten.

5 Esculent Roots These mostly belong to
the siliquosa class of Journesfort, & we may ob-
serve that all vegetable substances except the
Fungi are acescent & undergo the acetous before
the putrefactive fermentation in the stomach.
Radishes lose their acrimony by boiling Goa.
To beards, Lamb Lettice, Carrots, Parsley, Shirits,
Parsnips &c: contain mostly a saccharine mat-
ter & are therefore very nutritious.

Oleraceae Roots as Leeks, Onions, Garlic &c:
have their acrimony dissipated & become nutri-
ent by boiling in a raw state they are sti-
mulating & when boiled they become Demulcent,
besides these there are Shallots &c: Potatoes are
between the Oleraceous & Rarimaceous ~~roots~~
Roots, are used in diet & they yield a vinous liquor.

Salop is prepared from a root of a species of Orchis
by peeling the root then soaking it some time in
cold water & hung up to be dried in the air. The roots
thus prepared may be powdered w^h will dissolve in

* The farinaceous seeds are less nutritious than the Dietetic articles taken from the animal kingdom. In all cases they are a necessary addition to animal food: & are perhaps the best correctors of the putrid disposition which animal substances of themselves would produce, for the farinaceous being mixed therewith the mixture tends not to a putrid but to an acid state.

Lewis's materia medica

p. 277

boiling water to a jelly, its Demulcent good
in Disenteries &c.

Sago called by some Padica is the pith of
a tree called landan growing in the moluccas.
some say it is made the same way the Italians
make their Vermicelli & Taranitta its
Demulcent & is said will keep 20 years.

6 Tarinacious Seeds & these are of three
kinds Cerealia Legaminosa & nucis Oleosa.

Cerealia are the most used as Oats.

Barley, Rye, Wheat, Indian Corn &c.
These are acescent saccharine & very fit
for nourishment, they lose their acescency
by fermentation & are Demulcent. Barley
is the sweetest grain & subject to fermenta-
tion. Millet is very much like it, Rye
is a sweet grain & is eat much by the poorer
sort of people & is apt to purge those that are
not used to it.

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Oats is a very good compact sweet grain of a ⁴¹ ~~more~~ ^{thick} hard texture & not so easily digested. Wheat is the perfectest grain of any of the former contains a very fine farina & perhaps makes the best bread of any grain, Rice affords a fine farina some say it hurts the eyes but this seems to be a false opinion. Maryz or Indian Corn, is an american substance of a firm texture & requires to be made into a fine powder. Tigayrum or buckwheat is used with it made into cakes but in Scotland they convert it into other uses.

Bread may be prepared of any of the farinaceous seeds it is of 2 kinds, leavened or unleavened. Leavened bread is made either by ^{commonly} leaven, ^{so called} or by yeast, the latter being the best.

It should be so much leavened is to prevent the vinous fermentation & by its inclining to acidity be gently purgative, the farine

is a very agreeable diluent of the restringent
kind. In the Cholera morbus or bilious vomitings
& purgings it is often retained by the stomach
when other Liquors & medicines are rejected:
and in several Instances by being drunk plen-
tifully has effected a cure.

* An Infusion or Decoction of well toasted bread
is a very agreeable diluent of the restringent
kind. In the Cholera morbus or bilious vomitings
& purgings it is often retained by the stomach
when other Liquors & medicines are rejected:
and in several Instances by being drunk plen-
tifully has effected a cure.

Lewis's Materia medica p. 279

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being formed into masses by means of water &
beated untill it is dry. 43

unleavened bread is tough heavy & less soluble
in the stomach the leavened bread, it retains its
moister greatly & therefore is made into flat thin
cakes that the water may be sooner dissipated, to
this class belong also puddings, hasty puddings,
Grouel, Pancakes & Caste &c: most of these have
eggs milk &c: in their composition w: make them
very palatable & nutritious.

The Laplanders not having grain make
bread of shellfish & other dry substances.

Bread is a very necessary part of our aliment.
* nothing being more fit to mix the oily & watery
parts of our aliments than bread, being cleared
of viscosity by fermentation it ready mixes
with other substances, prevents the fatty or oily p:
arts from concreting or growing rancid & great-
ly facilitates the mixture of all the substances
in the stomach, & prevents a too active ferm-
entation.

Lect 5th Feb. y. 24th

45

7 Larinnaceous Legumina, are obtained from those plants which be a papilionaceous flower followed by a Pod these are also endowed with a saccharine substance & so nutritious, they are very profitable as they can be raised in great plenty making the ground fertile; whereas the Culmiferæ exhaust it, the Legumina are of a firm texture & therefore require a strong stomachs. they are used while young & green or ^{old &} dry.

Kidney Beans are of a firm texture nutritious & when deprived of their husk less flatulent than most of the other Legumina.

Peas on account of their flatulency are bad for weak stomachs.

Nucis Oleosa these are of the Larinnaceous kind having a great quantity of oily matter in their composition & by maceration &c. their oil is less blended & may be easily separated from them than

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the preceding, they are less flatulent than the
legumina or farinaceous seeds. 1st Walnuts
may be eaten, in dry climates they have the most
oil. 2^d Chestnuts were eaten in great plenty by
the ancients they called them acorns & in com.
bards they are now eaten as food, they are nutri-
tious affording a copious nourishment something
like the farinaceous but flatulent 3^d Walnuts
Pistachis & several others are reckoned hurtful
by infecting the Lungs causing asthma &c.
4th Almonds are either bitter or sweet, oil equally
obtained from either the bitter is unpleasant.
5th cocoa is well stored with oil, not used until
duly prepared & when so no oil appears in the
solution & it is called chocolate, this is good for
weak stomachs being easily digested & very
nutritious.

9 Olea these are used as sauses, they are
nutrient & afford oily parts for the cellular mem-
brane & so constitute a part of the nutritious
fluid, Oil & Butter are nearest the aliments of
the animal kingdom

X Simple fluidity; universal Innocence or the Absence of every quality that can offend the tenderest organ; miscibility with all the animal juices in a state of perfect health, except that, unfitness to dilute or mingle with them when greatly thickened, as in some diseases; a disposition to pass off by the cutaneous pores more speedily & more plentifully than by the kidneys in consequence perhaps of its total want of irritation: make the principle part of the medical part of ^{pure} ~~clear~~ waters.

Lewis's materia Medica p. 74

they cause dense blood & subject it to putrefaction. too much of them cause contractions of the Vessels. Butter is easiest mixed with water on account of its mucilaginous quality easier digested & more rancescent than oil, & butter is preferable to oil here on account of its freshness, but in countries where they have fresh oils they may be used instead of butter.

10 Drink this is either common water or fermented vegetable drinks & drink is necessary for the Digestion of our aliments & for ward it on thro' the Intestines the latter is evident from large quantities of Drink being purgative; It serves to facilitate the mixture of the Lymph & Chyle & therefore of use in fermentation, thus it appears that drink is necessary in a certain degree, but taken in too great quantities carries off the nutritive part of our aliment with it, for the more liquid our food is the sooner it is evacuated, hence Ceteris paribus a due medium of Drink is best & most for the nourishment of the body. Water is

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the basis of all our drink & every good: ⁵⁷ferme-
nted liquors quench thirst the best. Thirst has
many causes 1st & dryness of the aliments 2^d
the air drying the mouth & fauces 3^d want of
moister in the constitution & stomach 4th to
help the fermentation; the fermented liquors
by their accepsency stimulate, & correct alkal-
escency, & they are nutritive in a small deg:
:ree: if grown stale & joined with a too great aci-
:dity of the stomach they may cause Diarrhea
Cholera Morbus &c:

II Condammenta These are of different
kinds, 1st Aromata as spices, cinnamon, cloves,
Anise & carraway seeds &c: these stimulate the
stomach are carminative & antiseptic & fitly
used with vegetable diet. Radishes, mustard &
garlic &c: are fitly used with an animal diet,
they stimulate the intestines, increase the per-
istaltic motion are Diuretic Diaphoretic 2^d
Salt This has been reckoned antiseptic but it seems
otherwise in particular cases, carnivorous animals

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are hurt by it & wont touch it, but granivorous⁵³
animals are very fond of it, & it does them good,
Dr Pringle says common salt in a small degree
is septic, but in a large quantity it is antiseptic;
It seems to act as a septic by its alkali or
earth absorbing the acid & thereby promoting
the putrefaction, it stimulates the stomach
causes a secretion of the gastric lymph &c

3.^d Vinegar contains many substances in a
small degree a saccharine it stimulates the
stomach giving a gust or flavor to substances,
excites an appetite & forwards the acetous fer-
mentation in acid in the stomach it may do
hurt in great quantities; The juice of Lemons
is more agreeable more acerb & less subject
to an active fermentation. 4.th Sugar
affords a copious nourishment & might be subs-
tituted for common salt, it is antiseptic like
it & it would be preferable thereto if it was as
cheap & did not pall the appetite, it has been
said it hurts the teeth but this is an error

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for the French eat many raisins & have very⁵⁵
white teeth (sudden viscidities of heat & cold
Mercury &c: are most hurtfull to the teeth)
I reckon sugar corrects the surrey, & the few
putred fevers we now have, some attribute to
our eating Sugar. Pickels made with common
Salt are eat with meat & some vegetables as
Cabbage, but most vegetable substances are pre-
served by sugar or Vinegar, & these should be
considered^{only} as partaking of the nature of sugar
or Vinegar, by which they are preserved, thus
Cucumber &c: pickled with vinegar ought to
be reckned only as the vinegar contained in
a spongy substance the partaking only of
the nature of Vinegar.

Lect. 6.th 26th February 1766

Vegetable & animal substances compared.
1st The changes it undergoes in the stomach:
The vegetable substances are subject to ac-
cidity &c.

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& that in a greater degree than the animal & vegetable substances are to putrescency; animal substances are heaviest & most subject to oppress the stomach when taken in a great quantity; all vegetable substances except the oily are easily mixed, but animal substances are much harder to mix. Vegetables are cooling & are apt to bring on intermitting fevers, particularly cucumbers, salad &c. & from their acrescency may cause Diarrhea w^{ch} continued may terminate in a Dysentery &c. but animal food from its putrescency is most subject to bring on Dysenteries. Vegetable substances cause the hardest faeces, but animal substances make the most & densest blood, & those animals that live on animal substances have alkaliescent blood & are apt to grow fat & obese, the saline matter of vegetables is mostly diuretic, & animals are stimulating & cause greater perspiration than vegetables.

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Quere, Whether or no was man naturally formed to use animal or vegetable food? It seems most likely: say for both as is obvious from natural Instinct & the formation of thier Chylificative Organs, The Stomach of man being like that of carnivorous animals & the Intestines those of the herbaceous class; & upon the whole it appears that shepherds & hunters are older than gardeners, we find however that the Pythagorans & Brachonins live chiefly on vegetables, but yet not entirely as they eat milk &c; and they were inhabitants of a warm climate which best suits such a diet, on the contrary the Laplanders live chiefly on flesh & fish w^{ch} also suits thier frigid climate. but yet there is very few animals than live entirely on either vegetable or animal substances.

Q: In what proportion should animal & vegetable substances be used? In a moderate proportion, so as to keep the body in a strong state, for gemsters find that lessening the quantity of fat in thier cocks sensibly weakens thier strength; the athletic eat much

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animal food. They began by eating figs: labourers⁶¹
require animal food, & in proportion the more they
labor the more they ought to eat animal food; but
animal food blunts the mental faculties & hence
geniuses w.^d should have the most sprightly wits sh.
ould live chiefly on vegetables as likewise children,
but animal food in a due degree is necessary as
in Gouty patients to keep up a sufficient inflama-
tion in the disordered part of the extremities
to prevent it from going to the stomach & other
more dangerous parts. Too great a quantity or
proportion of animal food is dangerous & apt to bring
on putrescent & Inflammatory diseases, & by stimulating
the stomach cause a fever which continued
in time will wear out our frail machine, also
by its putrescency its productive of the scurvy
& by its acrimony if continued long in the body
it is productive of very bad symptoms.
I. which of the two are preferable? To this we
may answer that those who prefer the mental
to the bodily powers would choose a vegetable diet.

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but gouty Hysterie & Hypochondriac Diseases
 require to be treated with an animal Diet as
 vegetables always cause flatulencies & if the
 Gout in particular whatever be the cause of
 it is attended with a degree of inflammation,
 but its best paliated by temperance, not going
 out late in the night, & above all abstaining
 from too much Venery: Vegetables resist putre-
 faction & are not subject to cause the
 Thora & therefore are best if taken in a great
 Degree; & its a very great error that we use
 no more bread than we do; it being the best
 Substance that can be eaten used with our
 Food; was that a number of French & English
 eating together we might know the French by
 the quantity of bread they eat; children should chie-
 fely have vegetable food & in proportion of they
 arrive to full strength & manhood should have
 animal food. A variety of food is likewise re-
 quisite as Liquid with solid animal with vegetable &c.

64
* Milk is a mild balsamic nutritious fluid; when taken
freely, an excellent obtundant of acrid & deleterious
substances, & of over doses of the stronger cathartics & Emetics;
one of the best restoratives in emaciated habits, appall-
-iative whilst its use is continued for the only aliment
in gouty cases not inveterate, & in some rheumatic pi-
-ains; the medicine chiefly depended on in ~~lystic~~
hectics & consumptions; prejudicial in acute diseas-
-es, bilious fluxes & Dysenteries, swellings of the pre-
-cordia, & obstructions of the abdominal viscera.

Lewist materia M. p. 328

Milk is one of the most nutritious & salubrious
aliments. Cheese is a strong food hard of Digestion.
Butter softens & relaxes, obtunds acrimony, & if taken lib-
-erally blunts the activity of the gastric liquor & weakens
the digestive powers. Leumanns chimiestry 574.

65

but fish with flesh seems not necessary but perhaps
may do no hurt, but manifest injuries happen
from eating milk & fish together w^h however we seldom
do, & perhaps the ill effects they do is the reason
they are not eaten together, fish is difficult to
digest than flesh & cooling in the manner of vegetables,
however mixture may subject us to excess
in eating as too often happens contrary to the advice
of Physicians, many choosing rather to hazard
their health than appetite.

of Animal Food

1st Milk this is properly an intermediate
substance between animal & vegetable nature
prepared from the chyle & subject to acescency
& that more so in animals feeding upon vegetable
than animal substances. Emulsions of the
Mucis Oleosa resembles milk, but it is not coagu-
lable x. Milk contains 1st an oily, 2^d coagulable
& 3^d a watery part, which by standing will be decom-
posed

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from each other & the whole becoming acescent either
in or out of the stomach; in the stomach it is also
decompounded & thus forms chyle & again be-
comes milk by means of recombination, it does not
heat the body & produce a fever as animal food
does, it is universally eaten especially by the Inf-
ants of animals, being peculiarly adapted to their
tender nature, & viviparous animals are in a foetus
state nourished by the blood drawn from the moth-
er & assimilated, & as soon as born nature has
provided milk a substance very fit for them.
Viviparous animals have an Abdomen, to nourish
the foetus which is already assimilated to their
nature. It is likewise good in all respects, even
when there is a redundancy of acid in the stomach
it is not bad, as it won't produce so sharp an
acid, as vegetables.

Bread & milk make a very wholesome nutri-
tious diet yet sometimes it may produce morbid
symptoms, in Infants when taken in too great a
quantity; & in Acidities. It has been proved

The first of these is the fact that the
 human mind is not a blank slate at birth
 but is filled with a variety of impressions
 and ideas which are the result of
 experience and observation. These
 impressions are not always accurate
 and are often subject to change
 and distortion. The second fact
 is that the human mind is not
 a passive receptacle for these
 impressions but is an active
 and creative power which
 selects and organizes the
 material it receives. The third
 fact is that the human mind
 is not a single entity but is
 composed of many different
 faculties and powers which
 are all subject to the same
 laws and principles. The fourth
 fact is that the human mind
 is not a fixed and unchangeable
 entity but is a flexible and
 adaptable power which can
 be trained and improved by
 study and practice. The fifth
 fact is that the human mind
 is not a purely individual
 entity but is a social and
 cultural product which is
 shaped by the environment
 and the society in which it
 lives. The sixth fact is that
 the human mind is not a
 purely rational entity but is
 also a creature of emotion
 and feeling. The seventh fact
 is that the human mind is not
 a purely conscious entity but
 is also a creature of the
 unconscious. The eighth fact
 is that the human mind is not
 a purely individual entity but
 is also a creature of the
 collective mind. The ninth fact
 is that the human mind is not
 a purely static entity but is
 a dynamic and ever-changing
 power. The tenth fact is that
 the human mind is not a purely
 individual entity but is also
 a creature of the universe.

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by M^r. Monro Jun^r that the Stomach & Intes 69
times have a faculty without any acid therein
of coagulating milk like Rennet, more or less
firm.

Milk by means of a redundancy of acid
in the stomach may coagulate so hard as to prove
the same.

Mixed with the bile it may prove purga-
tive but it often causes costiveness. It con-
tains a large quantity of nutritious matter
resists putrefaction & is cooling, hence its
very good in consumptions, Electic Fevers
all inflammatory cases Gout &c.

Womens asses & Mares Milk is sweet dilute,
acescent & easily coagulable, but the coagulum
is not hard, hence we see its very good in Con-
sumptions.

Cows Sheep & Goats milk, are very nourish-
ing but thicker less acescent & less soluble than
the others.

They all grow gradually from a thin weak & acescent

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nature as Womens milk, to a thick strong & more
alkalescent nature as Goats milk.

Milk is subject to a variety of differences,
1st from the different species of the same kind
from a different formation of their organs
2^d at different times in the same animal thus
the Colostrum or milk immediately after de-
livery is thick yellow & purgative being de-
signed by nature to clear the intestines of
their accumulated feces; 3^d by change of ali-
ment, thus cows in the spring of the year
by eating the young tender juicy grass give
more but a thinner milk than in the fall & dry
weather, when it is thicker & fatter. Goats feed
on flowers & on tops of mountains, Sheep on
low short grass, but cows on tender & long grass
hence the difference in their milk; Horses liv-
ing too much on animal diet have had alkali-
escent milk, therefore a medium is best.

Milk is perhaps the best diet for children
& sick people that can be taken new. Some boil milk

which is reckoned good to keep it from a too speedy re. 73
peration, but the great quantity of watery Calities dissipated
thereby is apt render it too thick.

Milk is coagulable two ways 1st per se 2^d by Rennet
this coagulum is near akin to animal substances it
makes a great quantity of. Feces is cooling & good to
be eaten by those that eat great quantities of anim-
al food, but its apt to produce costiveness.

Cheese if lean & tough is hard of digestion cau-
ses costiveness & subject to rancescency its mostly
used as a Condiment.

Cream is subject to acescency 1/2 of it is
pure oil & from it Butter is made w^h is nourishing
but subject to rancescency: Whey is produced
either by Rennet or by its own acescency, the
former is very good for weak people, it contains
a great quantity saccharine matter, but it is
liable to noxious acidity, & then proves purgative.
Goats milk makes the richest & thickest whey
& most nutritious, Cows milk produces thin & weak whey.
Condiment is sometimes used with milk to check its
acescency, some add honey with good success.

74. I have the honor to receive your letter of the 14th inst. in relation to the matter of the 1st inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,
Your obedient servant,
J. M. Smith

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Lecture 7.th March 4.th 1796. 75

The quantity of food that animals afford
is either absolute or relative regarding the dif-
ferent habit & state of the body & for food in
would otherwise would afford a large quantity of
nourishment & if too soon it will afford but little;
the most gelatinous food & longest retained in the
Stomach & Intestines affords the most nourishment,
thus Eggs, shellfish, young flesh &c. afford the most
food, Alkaliescent food from its being subject
to putrescency is easiest converted to nourishment
& from its stimulating the Stomach & the rest
of the body it is very perspirable, Old animal
food is more alkaliescent & more perspirable, than
young w.^c is more gelatinous & tender; & old
animal food affords the most nourishment con-
trary to the common opinion of people. Sheep
live upon dry food & in France Mutton is reckoned
better than Beef.

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Of Particular Animals 77

Linnaeus has divided animals into 6 Classes viz:
Quadrupeds, Birds, Amphibious Animals,
Fishes, Insects, & Worms. — In the Amphibious
Class the Viper, Toad & Frog are the most noted.

1st Of Quadrupeds.

The Orders of the Quadruped class are reckoned
by Linnaeus 6. The chief of which used in food is the
Pecora domestica, living mostly on vegetables &
hence have very wholesome flesh, they have a bi-
valvular heart red & warm blood & have an altern-
ate respiration; of this order 4 genera only are gener-
ally eat viz: Cow, Goat, Sheep & Heart,

Beef is more firmer than Mutton more soluble
by the stomach, equally perspirable & nutritious; the old
is most soluble.

Mutton affords good nourishment, Lamb
is more fibrous & less soluble than Veal.

Goats live chiefly on high mountains & dry
land food their flesh is strong fibrous & not easily soluble.

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of Deer there are many kind their flesh is alkal⁸⁹escent
& very good, red Deer are toughest & least soluble.

of the order of Glycos there is not commonly
used in diet. but one genus viz: the Lepus w^h includes
the Hare & Rabbit. The Hare is very swift & its
flesh difficult of solution. The Rabbit uses but
little exercise, its flesh is fine tender moderately
alkalescent & easily soluble in the stomach, it
seems strange how there should be so much differ-
ence between two animals nearly alike in appea-
rance & of the same genus.

Swine are the only domestic animals that are
of no use while living & thence seem to be intended
for food they many restrain from Pork as the
Jews Mohometans &c. The Hog is an animal that
uses but little exercise & of consequence its
flesh is tender easily soluble & easily made fat
& remarkably white, its but^{the} respirable gelation
ous & very nourishing as is evident from the
athletic eating much of it, its also somewhat hot
& alkal⁸⁹escent, & in warm climates & from its

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being but very little perspirable it has been thought
to be bad for the skin & by some even to cause a leprosy.

Many other animals are eaten of the Quadruped
class in different parts of the world. The Delicate
Greeks used to eat the flesh of asses. The Persians & Arabs;

2^d of Birds.

Linnaeus comprehended the class of Birds under four
orders of which only are used in diet the others being
mostly carnivorous are rejected.

1st Galinae, as the Gallus & Gallina these are
domestic & live mostly on grain they are of a tender
structure & easily soluble if taken at a proper age
which is about a year old if very young they are
too gelatinous & if too old tendinous & hard, the cock
is much more delicate when castrated, but the method
sometimes used of keeping them entirely confined is
not good as some exercise is necessary for all ani-
mals to make their flesh tender & agreeable, & a
fat fowl allowed exercise is heavier than another

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of the same size fatted without being allowed^{or 3} exercise. Turkey is nearly like that of the preceding, Peacock is of a firm & hard texture & not very good for food.

Partridge & Quail are more tender & alkalinescent than Tame fowl, & are apt to cause a nausea, or dislike against them if eaten too frequent.

Lagopus or more fowl are by some reckoned good. Tormahants inhabits the tops of mountains & their flesh is very firm.

2. Anseres are mostly aquatic fowl, carnivorous & some of them mudsuckers, they are more alkalinescent & more difficult of solution than the Galina.

Tame Duck are very good particularly at certain times of the year when they are fat, when very old they are hard & firm, Muscovy Duck is an exotic.

Teel are very fine & tender, Tame Geese

04

are more soluble than the Duck, P5
The Swan is firm & very rarely eaten.

The Solan goose is an exotic, little known
it mostly inhabits the highlands on the
North of Scotland.

3^d Grallina are mostly aquatic disting:
- uished by their having long beaks with which
they catch fish & suck the mud. They have
mostly very long legs resembling the stilts
the romans used to walk upon called
Grallia & from thence this order of fowls
have their names;

The Ardea include the heron & Bittern,
The Scelopax the Woodcock, snipe &c. The
Tringa the lapwing grey & green Plover. The
Woodcock & snipe have ducky flesh & not
much eaten, the Tringa are pretty good.

4th Passeres the quality of these are differ:
- ent from their different food & exercise, we

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shall only mention 4 genera viz: the Pigeon,
Lark, Thrush, & yellow Hammer. The Pigeon
when young is very heating. The Lark is

The Thrush is

3^d of Amphibia.

The flesh of amphibious animals is between
that of Quadrupeds or Birds & fish, the males
have a double penis. Linnaeus divides them into

3 orders Reptilia Serpentaria &

1st Reptilia as the Turtle w^{ch} is said to tinge
the urine of a green colour & the sweat sometime
so as to cover linen, from hence it seems to
be endowed with some remarkable properties;

Lizards are rarely eaten there is a species
of frogs called by Linnaeus Rana Esculenta.

2^d Serpentaria few of this order are used as
food we shall only mention the Viper this animal seems
to merit but little of what ^{has been} said of it, used as food its very
good & as a medicine its chief properties consists in its
containing a volatile salt.

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4th of Fishes.

89

Fish in general are of more tender texture than flesh not so nourishing less perspirable & lie longer in the stomach than flesh, butter is often used with fish perhaps from an observation that it was of a good use. Fish are sometimes divided into the Fluvialis & Marina these are somewhat different from their different places & food.

of River fish are the Salmon Barbel Muddy River Perch &c: they are mostly tender easy soluble alkaliescent nutrient & heating to the system.

Fish are also distinguished by having & not having scales.

of Sea fish having scales are the Haddock Whiting Cod &c: are good & less gelatinous than those without scales, Mackerel is most commonly eaten pickled. the Scomber Gurnel & Mullet are very good, pikes are voracious not alkaliescent but heating, Lupia are succulent

[Faint, mostly illegible handwritten text in cursive script, likely a letter or journal entry.]

oil & alkaliescent and heating. 90

The Cockle Paddle &c: are of the eel kind with
out scales very nutrient. The eel is hard & gelatinous
mous.

5th of Insects.

These are by Linnaeus divided into 7 orders.
Insects are commonly some of them considered
as fish as the Crab, Labster, Snail &c: The lar-
va is like a locust gelatinous & pleasant to
the taste, but cause nausea in some people.

6th of Worms.

Linnaeus makes 5 orders of the Class of Worms,
Two of which is only used in Diet viz: Molusca
& Testacea. There is but one species of
the molusca used viz: The scuttle fish. of
the Testacea There are many as the
Podshel, Garden Snail, Periwinkle
Cockle, Clam, Oyster, Muscle, & many
more. These are mostly easy soluble not
very perspirable but very nutrient.
The Testacea are generally considered as unival.

= univalvular or Bivalvular.

93

Univalvular as the Snail having one
crusted shell called Operculum.

Bivalvular, the best of these is the Com-
mon Oyster w^{ch} is very good nutriment & easy of
digestion if eaten raw, but when cooked they are
much harder of digestion.

The last we shall mention under this head
is the Volucrum Ova or Eggs of Birds, these
are very nutrient they are formed of the purest
matter for the nourishment of their tender
young, they afford little or no feces, seem
to be dissolved in the stomach after being
coagulated, only by putrescency, they are
viscid, not perspirable, & seem to be between
vegetable & animal Food, may be eaten
very steady without causing nausea, tho
some cannot eat them at all.

94

Lecture 2th March 7th 1766. 95
Class 2^d Adstringentia

Gent^l we come now to speak of the first Class
of medicines, as you may remember we divid-
ed the whole materia medica into two parts
Diet & medicine The former we have
spoken of already.

Medicines acting upon the simple fibres
are of two kinds 1st such as Increase their
cohesion & 2^d such as diminish the same.
of the first kind are astringents & of the
second Emollients.

Astringents cause a nearer proximity
of the simple fibres & solida viva, thus
alum applied to the tongue, constricts it,
this seems to be effected by means of the Ner-
ves, as also when taken into the Stomach
in a remarkable manner & is propagated
throughout the whole system by means of the
Sympathy of parts, being effectual in stopping hemorrhages

96.

The particular Indications where astringents are necessary are 1st In great evacuations of all kinds. Sedatives in this case may sometimes be said to act as astringents, by allaying the too great impetuosity of the fluids, in a too great acrimony of the fluids demulcents are necessary & may act as astringent.

Styptics stop evacuations either by thickening the fluids, or constricting the solids.

2^d Astringents are Indicated in a Laxity of the simple fibres. 3^d In a debility of the moving fibres or solida viva when astringents are used in these Indications they are called Corroborants & Tonics.

4th Astringents are sometimes indicated in Spasms & evacuations from an irregular moving of the Fibres. & Astringents are sometimes used in healing of wounds & these called Vulneraries.

Astringents are contra indicated 1st If too long used they cause a Constriction & Stenosis

98

Symptoms 2^d. They destroy the mobility of
the fibres if too long used & thence may cau:
se Palseys, & there is the greatest Judgem:
ent imaginable necessary to know when
they ought to be used & when to be left off.
even in great evacuations they may do a gr:
eat deal of hurt if given at any time thus
in an acrimonious Dysentery if it is stop:
ped immediately before the cause is carried off. the
disease may be transferred to a more noble
part than the Intestines, & may prove of
worse consequences.

Astringents operate more actively upon
the part to w^{ch} they are immediately applyed as
the Stomach & Primæ viæ, & great care sho:
uld be taken not to stop a natural with a mor:
bid evacuation. Finally astringents must
not be administered in a Plethora untill a
sufficient evacuation is made.

Means of Discovering the astringency of medicines

X The Armenian Bole is an argillaceous
earth with a small portion of Iron w.^h gives
it its color & a little acid. It is styptic.

Heuman vol. 1 p. 30

1st By other arts as the tanning of Leather, ¹⁰⁴ their effects on leather being the same as on the human body, tho' some substances contain also a matter which would be hurtful to the body. 2^d It is sometimes discovered by an Acerb Taste 3^d A decoction or Infusion of all Astringent substances strikes a black color with green vitriol; the astringency of substances resides mostly in their solid parts, as in the Bark, Wood, & Roots, of Vegetables; the acerb taste is in the juice.

Astringents act more powerfully in substance than in solution; this rule holds good in all vegetables.

Astringents are divided into vegetables & Fossils.

Fossil astringents may be reduced to 3 kinds

1 Earthy 2^d Saline 3^d Metallic.

Earthy Astringents are at present reckoned but few & may be reduced to 3 heads viz: Boles Clays & Absorbents. The term Bole is not rightly expressed

* The obvious & immediate virtues of absorbent Earths
are to obtund acid humors in the first passages.
Lm. m. p. 555

103
however they are all equally good & may
well enough be shared, & might be expunged out
of the materia medica together with all earths not
soluble in our fluids, as they are good for nothing.
Odes of clay contain an earth of Alum but precarious.

Limolia is at present rejected.

Asteocolle is a substance formed by concretion
often about the roots of plants it has absurdly
enough been reckoned a bone binder as it possesses
no such quality.

Absorbents * have all been reckoned astringent
but some of them on the contrary, in particular cases, of-
ten prove Laxative, otherwise they may do hurt as Dr.
Pringle from experiments say all absorbents are Septic.

Saline Astringents the chief of w^h is Alum
the natural history of w^h we are lately acquainted
with when in an earthy minereal state it is
called Alumen Plumosum but when it is in
a clear crystalline form it is called Rock Alum

X. Alum is a strong astringent, one of the strongest of the substances of that class. It is in common use for external purposes; against relaxations of the Utricle, in Gargarisms for spongy scorbutic Gums; in Epithemes & colyria for inflammations & defluations of the Eyes &c. Internally it is given in small doses of $\frac{1}{2}$ a grain or less as a mild corroborant, & in larger ones as ten, fifteen & sometimes twenty grains for restraining immoderate hemorrhages *See m. m. p. 36*

Neuman p 286 vol: 1

105
or Roman Alum, its sometimes a little colored
is called English alum w^{ch} is as good as the Roman alum.

Alum is a speedy & safe syptic, quicker than any
of the metallic or vegetable syptics, is exceeding good
in inflammation of the Eyes by bracing up the Vessels
& stopping the impetus of the blood to the
part. I have seen surprising good effects of alum
made into a curd with the white of an Egg & appli-
ed to the ~~interior~~ of an Eyes when inflamed.

It remarkably braces up Lax & corbutic humors &
internally it is of service in Hemorrhages of the
uterus & other parts most conveniently given mixed
with Sanguinis Draconis into a pill, the Pill is
best made by melting the Sanguis Draconis & then
adding the powder of alum thereto, it is sometimes
given in intermitting mixed with nutmeg or Gentian
answering instead of the Bark it may likewise be
given in continual fevers where astringents are
necessary, it ought to be used in small doses often;
about ʒss of alone or else in form of a Pill as above.

* pure copper in its metallic state or calcined by fire appears to be indissoluble & of no considerable effect in the bodies of animals.

Dissolved in the nitrous or marine acids & crystallized or exsiccated by heat, it proves a strong caustic. Combined with the vitriolic acid, or with the acids of the vegetable kingdom or corroded by the air, it acts when externally applied as an efficacious detergent & gentle escharotic when taken internally as a virulent emetic & cathartic.

A saturated solution of it in volatile spirits is recommended by Boerhaave in disorders proceeding from an acid, weak, cold, plethoric cause.

Lewis's materia medica p. 237,

Lapis Hibernicus is a kind of slate it 107
contains alum but is far inferior thereto & is
much better left out & alum instituted in its room.

Metallic Astringents

Copper is very acrid so that the stomach throws
up even a small quantity of it. Ergo is very
acrid, but Copper combined with a neutral salt
is less acrid.

In small doses it proves a powerful stimulant
vomits Purges & has been found by its stimulus
to prove Diuretic. *

Ens Veneris of M^{rs} Boyle is a Calce of
Copper not so acrid as ^{the} above it has lately been re-
vived & reckoned good in the Rickets & M^{rs} Boy-
le says it produces sleep.

Lect 9. March 10th 1766.

M^{rs} Boyle says Copper promises more virtues in
medicine than any other Metal, it is astringent &
poison to all Insects, hence its Anthelmintic qua-
lity; externally used with copper with acids deterge

* To constringe & corroborate the animal solids appears to be the primary medical operation of Iron.

L. M. M. p. 265

Iron is mechanically the most useful & medically the most salutary of all metals. Though it always acts by an astringent quality it often proves in its consequential effects aperient: promoting natural evacuations where the obstruction depends upon a laxity of the Vessels; as well as restraining immoderate ones arising from the same Cause.

Neuman Chemis. p. 74.

Wounds & ulcers eat down fungous flesh & is 109
escharotic, & was used in those intentions by the ant-
ients but since the use of mercury it has chiefly been
laid aside: The Disease w^h appeared in England some
time ago called Angina Ulcerosa yielded only
to preparations of Copper; internally its dose should
be small & often repeated.

Iron is a metal more in use in medicine than
Copper it dissolves in all acids (at least its medicin-
al parts) & should be prepared by an acid before
taken, for if it is taken in powder its much more
precarious.

All the preparations of Iron are nearly alike
therefore we consult chiefly eloquence & form.
Lemery prepared a powder of Iron by putting
it in water w^h will dissolve part of it &
Salt of Iron & tincture is the commonest pre-
parations. Iron is purely astringent having
none of the stimulating quality of Copper & Mercury
& free from the noxious deleteriousness of Lead.

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The two opposite qualities ascribed to Iron
of astringency & ~~Aperative~~ depend upon the same
principle for in a Laxness & Debility of the Vessels
by its astringency it proves Tonic, bracing the
fibres & Stimulating the same increases the cele-
rity & force of the fluids & attenuates the same.
It should be exhibited in small doses & often.

There is another preparation of Iron the min-
eral Waters w^h often do more good than all
the medicines in the apothecaries Shops, this
seems to depend upon their containing but small
quantities of Iron, for weak Calybeates often
exhibited prove the most effectual, it is sometimes
given as an Antispasmodic in hysteric cases, but
in hypochondriacs it seems improper to give
Calybeates, for hysteric & hypochondriac affect-
ions differ in this that the former often is attended
with a Laxness & the latter with a Rigidity of the
fibres with a great sensibility of the Nerves & Debility.

Astringents are improper in Inflammatory
Diathesis Hemoptoes &c.

* It is one of the most certain of balmy beat medicines,
scarcely ever failing to take effect when the calces &
other indissoluble preparations are inactive through
the intestinal tube Lewis

* The effects of Lead on the human body are dangerous
Reumann

Blood Stone & Red Oker are Ores of ¹¹³ Iron, but as they have no properties but what depend upon the Iron & therefore are never used.

Green Vitriol is used as a strengthening & Diobstruent medicine in no respects different from Sulphur.

Lead is only used in combination.

Minium & Ceruss are used in Plasters.

Lead combined with an acid is a very powerful medicine, with the vegetable acid it forms a sweet substance which in a solid form is called Sacch: Saturni & if fluid acetum Lethargii.

Sacharum Saturni is used in inflammation of the Eyes being a more powerful repellent than alum; its recommended in solution in the Erysipelas; but how far repellents are proper in this distemper is a matter of Doubt. Its use proper in gangrenous cases. Combined with mercury I have known good effects produced in scrophula but its dangerous; used internally its a more powerful astringent than either Copper or Iron.

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* Calamine, Sulphur, Pampuloxe & the flowers of
Zinc are applied externally in unguents & other
forms as decussatives & epulotics, against run-
ning ulcers, excoriations of the skin, & Desfue-
rations on the eyes. by some they have been exhib-
ited internally; It is said that the flowers given
from gr. vi to xii proves sometimes sudorific
& sometimes purgative or Emetic.

Hennemann's Chemistry p. 26

X White Striol is sometimes given from 3 or
6 grains to $\frac{1}{2}$ a dram & more as an Emetic; It ap-
pears to be one of the quickest in operation of
those that can be used with safety.

Lewis m. m. p. 576

Hennemann thinks it may well be spared as an Emetic
as it does not operate as well as Emetic. Turke's prin-
cipal use is in Colyria for Inflamed Eyes v. 1 p. 64

it has been given in obstinate hemorrhages¹¹⁵
of the uterus &c: but if caution is necessary in the
exhibition of astringents it is much more so in
this from its deleterious quality; some put Lead
into over wines to render them sweet but
this is very dangerous.

Zinc, Lapis Calaminaris, & Tartia have
lately been introduced into the materia medica.
The flowers of Zinc are by some reckoned by some
to have extraordinary qualities. Calamine &
Tutty are inert, give no tincture with water;
the former is used in composition of Turner's
Cerate called in the London Dispensatory
Ceratum e Lapid. calam. its a repellent &
exiccant as is also Tutty & they have both been
reckoned ophthalmics.

Vitriolum album is a salt of Zinc combin-
ed with heterogeneous substances its astringent
& used in inflammation of the eyes. & its a quick
emetic.

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117

No animal substances except burnt bones
are used under this head.

Vegetable Astringents are weaker & act slower
than fossil astringents, therefore in urgent ca-
ses fossil astringents are to be used. It ought
to be observed that fossil astringents are best give
ven in Tinctures; & vegetables in substance,
as any tinctures made from vegetables would
be so weak as to produce no effect & are more
liable to have their astringent quality changed
by fermentation than when given in substance.

In slow cases Vegetable astringents used in
a solid form are best & safest, I have before
said that astringents are proper in laxity di-
scilities & in immoderate evacuations as
Hæmorrhæ, Hemorrhoides, immoderate dischar-
ges of the Catamenia, Diarrheas, Dysenteries.
Fluxus Albus &c.

of Particular Vegetables

The first 6 in the Catalogue are the Sint. cosa
of Linnaeus agreeing both in Natural order & property.

X The roots of livefinger are mild astringents & give
out their astringent matter both to water & spirit

X Tormentil is a strong & almost flavourless astringent
& gives out its astringency both to water & rectified
spirits do page 164 Lewis m. m. p. 425

Madder gives a durable red dye to wollen clo.
th prepared with alum & Tartar.

Here we see the advantage of Botany.

The 8 plants all agree in quality differing only in degree. Five Finger Roses & Formentill are the powerfulllest astringents; Five Finger has been used in fevers ever since the days of Hippocrates.

Formentill is used in Germany in intermitting fevers ~~some of the best~~ ^{up to 7i} &

2^d Mellata of this order we shall only mention 3 Aparine, Galls & Madder the latter tinged with Urine & bones red, & has been reckoned good in the jaundice; but aperients & solvents seem necessary in this disease ~~but~~ ^{as} Agrocedra from obstructions of the biliary ducts, as also vomits by their agitation are good.

3 Vaginalis these belong to the 12th order of Linneus's natural fragments they have an acid joined with astringency. Rhubarb is purgative in large doses as well as astringent. Bistort is the purest astringent of any of this genus.

[Faint, mostly illegible handwritten text in cursive script, likely a letter or journal entry.]

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Sord & Dack is very good in serobatic decoctions.

4 Filices These belong to the 6th order of Linnaeus's fragments. Tirn has a sweetness joined with its astringency. they belong to the Cryptogamia class of Linnaeus's Syrtaria Natura Anthelmintic Diuretic Lithontriptic & Antispasmodic virtues have been ascribed to them. Cupress called sometimes Lichen is often used by old women in the Chin Cough or Tussis Convulsiva. D. Mead also recommends a species of the Lichen in this Disease instead of the Bark.

5 Irregular Vegetables not agreeing in natural character, but agreeing in quality; Sloes, are the strongest styptic in this order. They are good in Dysenteries & Diarrheas proceeding from a too active fermentation caused by eating too much fruit &c. for by their acerbity they check fermentation; best administered in form of a Rob.

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123

6 Miscellaneous or vegetables agreeing neither
in botanical character nor sensible quality;
Anchusa belongs to the Asperifolia Class of Ray;
it has little astringency best given in Decoction
or Infusion. +

Calustines are the flowers of the Punica or Pome-
granate Tree Brounell belongs to the Verticill-
latea Class of Dournefort is but little astringent.
St Johns Wort has a bitterness mixed with astringency
its oil is terebinthinate & contained in Cells in the
Leaves & Petals thro' which we may see. It has done
good in maniac & melancholic cases.

Lythium, De Haen says he cured Dysenteries
with this given in doses 3 times morning & evening.

Yarrow is used in flatulent Cholics; * I frequently
ordered it when in the Champaign made into a Tea
for Dysenteries. Myrtus is astringent & strengthening.

Pantain is not much used, Clark says he used
it often with success in large doses in hemorrhages
Hemiplegia &c. with Venesection & low diet.

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Solomon's Seal its flowers, berries, & leaves, have a
 poisonous quality, the root is acrid but this acrimony
 is dissipated by boiling, its used in decoctions with mi-
 :lk in hemorrhages; (women are more subject to this
 disorder than men but if they have their menses regu-
 :lar at the same time it may be checked without
 danger). Sanicle is of the umbellate class of
 Tournefort its of a bad acrid quality & very little
 astringent. Leeks applied to the Corns is said to
 rot them. Mistle has been found to do good in
 the Epilepsy in the beginning of w: as it often proce-
 :ds from laxity astringents are necessary, it has
 a bitterness joined with its astringency, & is the
 same let it grow on what tree it will, hence app-
 :ears the particular organization of bodies; Its ba-
 :rk is best, dose ℥ss to ℥i.

Nettle is used to advantage in Decoctions in the
 hemorrhoids & Dropsies.

Uva Ursi, very extraordinary virtues have
 been ascribed to this plant of late by van Swieten & De Haen.

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& others, in Gravel Strangulations ulcers of
Kidneys Bladder &c: its best given in substance
3 or 4 times a Day for a long time.

Lecture 10th

Acacia or Thorn is a very simple astringent
having scarce any other quality.

Catechu or Terra Japonica is used in
Gleets Dysenteries Fluor Albus &c: &

Sanguis Draconis is the Gum of a Tree & is
employed as an astringent but is not very soluble in the
stomach it is commonly used combined with alum &
perhaps the astringency of the Alum has been ascribed to
it: it should be made into a Pill by melting the Dragons
Blood over the fire & then adding the powdered Alum mak-
ing the mass to consist of $\frac{2}{3}$ Alum & $\frac{1}{3}$ Dragons Blood.

Cortices, Granate ash & horsechestnut have an
astringency with bitterness they are sometimes used
instead of the bark in intermittents.

Semina uba has its virtue well vouched, given some

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sometimes as astringent, the French say in large
doses it causes Nauseas & Vomiting.

Logwood, is astringent but its firmness of texture
makes it little used, Dr. Pringle recommends it in the
last stages of a Dysentery.

Galls are fungus & excrescences growing from
a puncture. being a nidus of a great number of Insects,
they have all the same astringent quality growing on
what tree soever agreeing in this with mistletoe & other
Parasitical plants; they have a pure astringency
as is evident from their effects on leather & on Ink,
give out their virtues to watery menstrua, & in
France they are used to cure intermittents.

Acids, that acids are astringent externally app-
lied appears from their corrugating the fibres of the
lips & pressing the Red blood out of them; some have
imagined that all acids act in the same manner, but
in different degrees; but there is a manifest difference
between Vegetable & Fossil acids, perhaps from the
vegetables undergoing a degree of Fermentation in

the stomach, but fossil acids w^h are taken in a dilute state are not changed in the stomach & prove Diuretic by thier Stimulus. Vegetable acids differ in themselves, for the native acids of unripe fruits not having undergone the acetous fermentation are apt to produce it in the stomach & thence cause flatulency colic &c.

But Venggas being already thoroughly fermented will not produce the preceeding symptoms. Having in a small degree an astringent with a sedative quality.

Austere Wines are apt to have thier active fermentation renewed in the stomach & thence cause spasms Colics flatulency &c. They are most astringent when burnt some endeavour to specify the qualities of Wines by thier color reckoning the red wines austere White wines mild & sedative Medeira wine Stimulating but this wont always hold true.

Bitters have mostly an Astringency joined with thier ~~Bitterness~~ thence they are Tonics and Corroborants.

Sedatives & Balsamics are only astringent in a secondary manner. Sedatives by lessening the impetus of

The blood in hemorrhages & allaying the motions of the Solids may stop hemorrhages & thence be called astringent. Balsamics are improperly reckoned Astringent, they stop secretions of Urine perhaps by exciting an Inflammation & thus decreasing the Diameters or by strengthening the ~~same~~

Esiccants as Clays &c. externally applied they are drying but not so when taken into the Stomach. They have been ~~recommended~~ recommended in Complaints of the Skin & in the Erysipelas which seems to be rather a Disease of the rete mucosa than of the Skin.

Class 3. Emollientia

Emollients are such medicines as lessen the cohesion of our simple fibres & Solids in w^h they act directly contrary to that of astringents. As fibres are composed of very fine filaments connected longitudinally by a tender cellular membrane & glutinous substance, Emollients act therefore either by dis-

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solving the Glutens or by interposing a fluid substance between the Fibres.

The effects of Emollients are local or chief-ly confined to the place where they are applied, relaxing the solids by w^h means a greater flow of humors are admitted to the part where they are applied: hence the doctrine of revulsion & Derivation; on the contrary the operation of astringents is continued thro' the whole body.

Indications where Emollients are proper are
1st a Dryness of the Fibres 2^d Rigidity 3^d Distention & Inflammation of the fibres 4th when it is proper to encrease the Laxity of a part for the sake of Derivation & revulsion, how far it is practicable or proper in this case is a matter of Doubt for if we take of the Tension of a part by lessening the quantity of fluids we Relax the whole system at the same time: I have known an Inflammation not bigger than a pea Disturb the whole body. Emollients shew Acrimony as its quality is contained either in the water oil or mucilage of bodies.

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Water is the most penetrating but is apt to be too soon dissipated leaving the parts dry.

Oil is a more durable Emollient than water & not so soon dissipated.

Mucilage consists of a watery & oily part; the water of w^h soon evaporates.

Oil is said to stop the Pores of the Skin but this is a false Thesis, for they are not so easily stoppt by reason of the great force with w^h the perspirable matter flies off & it should seem by its relaxing quality that it will increase perspiration as it appears to do in a Coryza by relaxing the rigid nares & in an Angina.

Spirits should never be used with Emollients as it counteracts them the best way of obtaining the Emollient part of Vegetables is by Expression.

Vegetable Emollients

1st Malvaria this is a natural order of Linnaeus of which we have only two in the Catalogue viz^t Althaea & Malva, the root of the Althaea is best used internally

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[Faint, mostly illegible handwritten text in a cursive script, likely from a 17th or 18th-century manuscript. The text is written in dark ink on aged, yellowed paper with visible foxing and staining.]

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its demulcent, & externally emollient. Malva
may very well be substituted in the room of the
Althea having the same qualities tho' in a lesser degree.

2. Larinsa, Hempseed is inferior in its me-
dical virtues to flaxseed.

Quinces are Demulcent & very easy of Dig-
estion Ternugreek contains an oily & mucilagi-
nous substance of a hard texture, but is an Emoli-
ent in Cataplasms.

Flax Seed Taken internally its Demulcent &
Pectoral externally Emolient, its oil is very nauseous
to most People & therefore Malva is mostly substi-
tuted in its stead as answering nearly the same pur-
poses.

Psylli is mucilaginous & emollient but as it
is an exotic it may very well be left out of the
Catalogue.

Oleracea These are said to contain a mild
nitrous Salt & to be attenuating & Emollient
but I think no Salts can be Emollients but
stimulating

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Bonus Henricus, in this we see the necessity of being Botanists, there is two species of it, by most writers on the materia medica its called Mercurialis.

4 Irregularia, these are such as do not agree in natural order.

Chick weed is almost insignificant.

Boan cussine

Melilot is of the Leguminous class of Tourm. for it was reckoned Emollient Perhaps from its having a soft leaf its put in plasters designed for dressing blisters but it might very well be laid aside & a little verdigrease used in its stead in the same intention.

Soap Wort this will raise a froth like soap, it is reckoned Apurient & Diuretic. x

Mullein is but little Emollient.

White Lily Root & Roasted Onions are good in Emollient Paultices.

I have been thinking of you
 very much lately and wondering
 how you are getting on. I hope
 you are well and happy. I
 have been very busy lately
 but I have not forgotten you.
 I have been thinking of you
 very much lately and wondering
 how you are getting on. I hope
 you are well and happy. I
 have been very busy lately
 but I have not forgotten you.
 I have been thinking of you
 very much lately and wondering
 how you are getting on. I hope
 you are well and happy. I
 have been very busy lately
 but I have not forgotten you.

Bland Bils are mild & Emollient. 143

Of Animals.

Milk is very little more Emollient than water
Animal Bil or Lard is to be preferred before all
the other parts of animals. They are all nearly alike.

Class 4 Stimulantia

Stimulants are such as act more immediately
on the solida viva or Nervous System either direct-
ly or indirectly, first by acting immediately on the
Nerves to w. they are particularly applied, in the
latter case by communicating their effects with
the sensorium commune, this is the most general.

Cold is a very powerful Stimulant & Causes a
Proximity of Fibres.

Many Theories have been advanced to explain
the operation of Stimulants in the human body.
Some Mechanical others Chemical, Some imagin
there are local Stimulants or Causing the secretion
of particular humors only as Urine Sweet &c. Some re-

> Blisters - Hippocrates recommends the internal use
 of Emetharides, but was unacquainted with their external ap-
 plication. Aretaeus Capadoc was the first that employed y^m
 as Vesicatories & he ordered the patient to drink milk three
 days before their application to prevent a stranguy.
 They did not come into use untill the 14th Century when
 they were again revived in Italy, & their use from that time
 became universal. From the use of Erispartie medicines
 y^e following direct effects are produced - They excite pain. they
 increase y^e quantity of fluids circulating thro' y^e part to w^{ch}
 they are applied; they produce a serous discharge; they pro-
 duce a Discharge of Pus. The changes induced in y^e system
 from y^e primary effects of Erisparties are attention to the
 sensation of pain excited by y^e application of the
 Erispartie - An increase of excitement in the
 Nervous Energy through the system in general - An
 uncommon determination of blood to the part parti-
 cularly acted upon: a diminution of the quantity of
 blood passing thro' y^e blood vessels in the Neighbourhood
 of those in w^{ch} y^e flow of blood is increased; a permanent
 change in the mode of circulation; a diminution of the
 quantity of circulating fluids; & a particular Diminution
 of y^e serous part of the blood. The Different Arti-
 cles referred to the Class of Erisparties may be distributed
 into the 3 following Orders. 1st Erispartia Rubefaci-
 entia - as examples of w^{ch} may be mentioned Sinapi Alk Vol.

reckon specific Stimulants as Light to the Eye.
Sound to the Ear &c.

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* Topic Stimulants, some excite heat others
raise blisters, some prove Tonics others blonics, & ex-
cite those two motions in the body according to Law:
but the extend their operations to the remotest
parts of the body by means of the sympathy of
parts as we see a stone in the bladder by its Stimu-
lus will cause Vomiting &c. the Stomach howe-
ver not being primarily affected but in a Seconda-
ry manner by the Sympathy of parts.

All Evacuants Stimulate but we shall
not reckon them such under this Class.

Stimulents are Indicated 1. In a Languor
& Sluggishness of the humors 2. In a debility of mo-
tion as in the Chlorosis of Virgins. 3. In a
weakness & Laxity of the Vessels and inertia of the
vis vitae as in Dropsies Leucophlegmacia as
also in Vertigos, Serous Apoplexies, Cold Head
achs &c. In a Languor aescency & Debility of the
alimentary Canal & in the Gout of the Stomach

2. *Epispastia Vesicantia*, as *Cantharides*.

3. *Epispastia Suppurantia*, as *Issues & Seters*.

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The indications of *Epispasties* are capable of fulfilling may be derived from the 3 following sources 1st From their acting on the Nervous Energy. Hence they may be employed to diminish violent pain to take off the effects of uncommon sensibility to remove torpor.

2^d From their altering of balance of circulation hence they may be employed to diminish of impetus of the blood against any part morbidly affected - to diminish a morbid increase of action in Vessels in the neighbourhood of those to which they are applied.

3^d From their producing evacuation, hence they may be employed to diminish of quantity of circulating fluid when too great for the state of system at the time - to evacuate morbid accumulations of Serum. These observations may be illustrated from practical observations concerning the use of *Epispasties* in case of Tooth ache Hemorrhage, Apoplexy, Ophthalmia, Hepatitis & Hydrocephalus.

The principle circumstance respecting the choice of orders in the class of *Epispasties* may be deduced from the following observations concerning each.

1. *Epispastia Prurifacientia* The individuals referred to this order are not extensively applicable to answer the purpose for which the class may be employed - they are fitted to fulfil some indications from an action on the nervous system; they are preferable to other *Epispasties* for the removal of Torpor when suddenly

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aromatic Stimulants are very proper & prove beneficial.

Lecture 11.th

Stimulants are contra indicated in all sanguineous Constitutions in glandular obstructions in the close of long Fevers; when the Solids are too much stretched: In a sinking of the Pulse they should be used with caution; mild stimulents may be used after the use of Emollients; frequent use of Stimulants have a tendency to destroy the tone of the System; they should be used first in small doses increasing gradually & when we want the Solids braced up cold bathing is proper.

Stimulants are often distinguishable by their taste & their strength chiefly resides in their essential oil w.^{ch} in some of the clapes as the Seliquosa is extremely volatile; sometimes their acrid parts resides in the gummy substance w.^{ch} may be extracted by water. but the best manner of extracting the Stimulating quality of Vegetables is by means of alcohol or an Extract, if exhibited in substance we should consider

required - they may also sometimes be ~~required~~ employed to fulfill indications in changing of mode of circulation; but they are rarely in this intention preferable to the other orders - From the degree of effect they produce, they are applicable chiefly to those cases where slight & transitory changes are wanted. The constitution to w^{ch} they are principally adopted are dry spare habits, those w^{ch} would be hurt by any degree of evacuation, & those much debilitated by long continued diseases.

Epiopactia Virivantha. The individuals belonging to this order are from their nature adopted for all w^{ch} indications to be answered by the lungs; they are particularly preferable to all others when evacuation is suddenly wanted. From the degree of effect they produce they may be employed when the highest changes are requisite; they will scarce admit of being adopted when slight changes only are proper. The constitutions to w^{ch} this order are chiefly adopted are the venous or Sanguine, those in the prime of life, & those affected with acute diseases.

Epiopactia Suppurantha. The individuals referred to this order are from their nature adopted to fulfill those indications w^{ch} may be answered by a change in the determination of the blood. They are frequently of remarkable service in diminishing of impetus of the blood in parts morbidly affected. They may also be used with advantage to diminish a morbid increase of action in neighbouring vessels, if considerable effect be suddenly required. They may be used likewise for some purposes to be answered by evacuation. They are not adopted to diminish the quantity of circulating fluids, but they

their different Degrees of Solubility in the Stomach, & be careful in reducing them to Powder to prevent their volatile parts from flying off. Many Stimulants have other Secondary qualities.

of Vegetables.

1 Verticillata this is a very natural order & the 58.th of Linnaeus's fragments, they have all of them similar virtues though some materia medica writers divide them into Cephalics, Cardiacs & Pectorals

Betony Betony numerous & even opposite virtues have been ascribed to this plant, its efficacy is but small, & may stimulate the membrane of the nose & prove an Errhine, some say it is an Anodyne. x

Baum Baum Though many virtues have been ascribed to this plant yet it is but a weak Stimulant. x

Lavender, Marjoram Origanum

Rosmary x & others have a great quantity of very fragrant essential Oil.

may be of service for evacuating voracious accumulations they are chiefly of use for this purpose when they are deep seated & cannot be easily acted upon. The constitutions to which they are adapted in preference to any other are the aged the irritable & those laboring under chronic complaints.

The cautions to be observed in the employment of Epispastics as derived from their nature chiefly respect the pain which is occasioned by their action especially when they have no tendency to remove the complaints for which they are used. The inflammation they excite in the part to which they are applied, & which is a frequent attendant on their operation. The conditions of the system to which chiefly require attention in their employment are, the female sex & phlegmatic habits. The circumstances chiefly to be observed with regard to the regimen necessary during the class, respect, the accommodation of the diet & temperature to the disease of the patient, the use of Demulcents & Diluents: The strength of the order of Vesicantia, the treatment of the part after they are removed, & the continuance of Epispastic applications, when the order of Suppurantia are used. Contraindications are chiefly contraindicated by the presence of the following morbid states. A high degree of irritability in the system in general: morbid & viscid of the blood, or a general inanition of the fluids.

We shall now speak of the use of Blisters in fevers. When fevers are accompanied with a headache of a dull kind, & Coma, Blisters are commonly useful. Blisters are also of service in local inflammations, as in the Throat, after bleeding, likewise in Peripneumony, when the Pulse is first lowered by blood letting. The effects of Blisters in continued fevers are doubtful while the Pulse continues full & strong, but they are of use in their decline when the Pulse sinks. From Dr. Keil's aut. however, it appears

They are good in languor & disorders of the head.

Steeches Arabic & Ditany of crete are natives of the southern climates & cannot be raised in the northern ones.

Calamint is but a weak stimulant.

Hyssop, Ground Ivy & Pennyroyal are reckoned Pectorals but their effects seem but trifling this way, Ground Ivy is the best in pulmonary complaints Hyssop nearly like it.

Pennyroyal has been reckoned a powerful menagogue & antispasmodic & it certainly is a good menagogue if the obstructions proceed from spasms, it has also some alexipharmic & pectoral qualities & said to have cured the Chin Cough. it agrees with the mint in genus.

Of Mint we have set down the common mint, the pepper mint, & the Cat mint or Catnep.

That Blisters are useful if applied 24 hours after the first attack of an infectious fever, but a Vomit must be previously exhibited. Blisters are seldom of service if exhibited neglected for the first two or three days. If they are applied 24 hours before the spasm is formed they may prevent its accession - afterwards they are not of service. When there is a subsultus cordis, more, & an increased sensibility of the Nervous system Blisters are of no service even if the pulse is low.

Thomas
Cromer

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Peppor Mint is the strongest it contains a
very active & lively principles, giving a glowing
warmth through the whole system. A distilled wa-
ter however is reckoned good in fevers.

Catmint agrees in virtue with the preceding
but it is weaker, it has be reckoned a tirener real
& to prevent Nocturnal Pollution.

Herb Mastick, Summer Savory, Wild Thyme
& Thyme cause an equal warmth & are equally
stimulating through the whole system, Thyme
gives a good flavor to Tea.

Sage small germander & Germander follow
next. Sage causes a small sweat used in
fevers but if too much used its said to be hurtful
to the Eyes.

Germander is said to be good in gouty pains.

2 Umbellata these do not all agree in medi-
cinal virtues as some of them have an acrid poi-
sonous quality; the seeds of the chief of this order
are used. the seeds of the Coriander are aromatic
but the plant is fetid.

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Annuel, angelica, Lovage, &c. have a large quantity of an aromatic juice, their seeds are carminative, Stomachic & Dissolve conjections, hence they are good in Colics & Head aches & flatulent Diseases, they might very well be substituted in the room of the foreign aromatics, they are good in the flatulency of children from the redundancy of acid in the Stomach they are said to be Diuretic & Pectoral but these qualities may be Doubtful.

Aniseed gives a flavor to milk & hence reckoned to be pectoral & Diuretic as most other Aromatics.

Bill has a rank foetid smell is reckoned Antispasmodic

3 Siliquosa this is a natural Order agreeing all in medicinal qualities, they are very acid but their acrimony is dissipated by boiling, they are very active Stimulants hence they are good in Paralysis & other Debilities of the nervous System.

Mustard seed effects the Stomach when first used & if used too long it grows insensible in the Stomach & thus loses its effects when it should be disused for a time

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Honseradish is so acrid as to blister the skin if
long applied thereto & is effectual in weakness of the
Nerves, its active parts is very Volatile, hence it
must be used fresh, & its qualities extracted by
close infusion & corked up tight in Small vials
if kept any time. x

Mustardseed helps Digestion & is Carminative
in Small Doses but in large Doses it proves Emetic,
hence if we want it not to vomit its best given
without breaking the seeds, that its active parts
may not all be extracted before it gets into the
Intestines, a spoonfull of it taken night & mor-
ning is good in habitual Costiveness in less
Doses it proves Diuretic & Sudorific.

Many belonging to this class are powerful an-
tiscurbutics their expressed juice being the best
for that intent & obtained from those substances
which have an Acid joined with their Stimulating
qualities such as the Scurvy grass they are
said to be pectoral if so it is in consequence of

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[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

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Diaphoretic quality there being so near a unity
between the Skin & Lungs in the Diaphoretic
& Diuretic quality of Substances. In Symples they
are very good in hoarseness to answer w. end the
Symples should be propagated from the Oesophagus
to the adjacent Larynx. In France the Singers use
it to clear their voices particularly the Enrica
which with them has got the name of the Singers plant.
They are all alike differing only in the degree
of their acrimony having no other sensible
qualities.

Mustard seed among the seeds; More radish
amongst the roots; & Curry grass amongst
the leaves, are most in use.

Shepherd's Purse has been recommended as an
astringent in Hemorrhages but its effects are
trifling.

The Expressed Oil of these is mild & bland the acrid
& Stimulating quality residing in their essential
oils.

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[Faint, illegible handwriting in cursive script, likely a historical document or letter.]

The Syrup of horse radish is best made by scraping the fresh root adding a little water thereto then digesting it in Balneo Marie sometimes after that squeeze out the juice through a strainer adding a sufficient quantity of Sugar thereto then cooking it up tight for use.

4 Alliacea these have their acrimony dissipated by boiling w.^c is however less volatile than those of the Selignosa they require nearly the same treatment & have the same virtues of being Diaphoretic Diuretic & Pectoral, they should be given fresh, their Syrup has the qualities of those in the preceding order; garlic has the strongest odor of any of this Order, x

5 Conifera of w.^c we shall set down three the Sir pine & Juniper these agree in botanical order & medicinal qualities, but this does not hold throughout the whole order, their virtue resides in their resinous parts

162
The first of the year was a very
cold one, and the weather was
very disagreeable. The wind was
very strong, and the rain was
very heavy. The snow was
very deep, and the ice was
very thick. The people were
very much distressed, and
the cattle were very much
starved. The sheep were
very much distressed, and
the horses were very much
starved. The people were
very much distressed, and
the cattle were very much
starved. The sheep were
very much distressed, and
the horses were very much
starved.

The second of the year was a
very warm one, and the weather
was very disagreeable. The wind
was very strong, and the rain
was very heavy. The snow was
very deep, and the ice was
very thick. The people were
very much distressed, and
the cattle were very much
starved. The sheep were
very much distressed, and
the horses were very much
starved. The people were
very much distressed, and
the cattle were very much
starved. The sheep were
very much distressed, and
the horses were very much
starved.

The third of the year was a
very cold one, and the weather
was very disagreeable. The wind
was very strong, and the rain
was very heavy. The snow was
very deep, and the ice was
very thick. The people were
very much distressed, and
the cattle were very much
starved. The sheep were
very much distressed, and
the horses were very much
starved. The people were
very much distressed, and
the cattle were very much
starved. The sheep were
very much distressed, and
the horses were very much
starved.

It is nearly alike in all.

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6 Balsamica, these are of a middle consistence between that of raisins & Oils as the Teribinth & 4 Balsams of Copivi, Tolu, Peru & Gilead.

Balsam Copivi is reckoned a Cure for the Colica Pectorum or Dry Belly ach.

Teribinth_x is reckoned a mild Stimulant & very good in Clysters. They are all Diuretics & have an acid Salt like that of Benzoin in them they are also reckoned Nephritic but if there is an Inflammation of the Kidneys they are hurtful by their heating quality; too promiscuously used in disorders of the breast they prove pernicious. Boerhaave cautions also: at the use of them in a Plethysis: they have been found to do good in a Scialics Lombago: their virtues reside in their essential oils Bals: Copivi is the Strongest as it contains the most Essential oil: they are perhaps a little Different as their odor is very Different.

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Opobalsam or balm of Gilead is seldom
met with pure, most of the balsams are dif-
ficult of solution especially Terebinth. w.
I have known, to remain a long while undissolved in
the Stomach, hence a Decoction of the Tops have been
preferred by some, & they are certainly possessed of
great virtues.

Juniper Berries made into a Tea has been
found to cure the Gleet.

Gum Guaiacum is a good alterative &
stimulant & may be given in powder or Tincture

Liquid Storax I mention this only out
of Compliments to the Dispensatories; it is sca-
rcely or never met with pure in the Shops, it
partakes of the nature of the balsams but in a
low degree.

Myrrh is a common medicine but its virtues
however is not truly ascertained. it gently stimu-
lates the primæ viæ. If mixed with Aloes proves
a gentle laxative it also produces heat & sweat

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It has been esteemed Emmenagogue & is an Ingredient in the Gum Pill, but its virtues this way are not very great. *

The following three woods are mostly used in decoctions.

Sigri: Guaiaicum is a principle ingredient in the Decoction of the woods its been found to have good effects in the Lues Venerea but not powerful enough to cure it alone.

Sassafras is a warm aromatic containing a very heavy oil by its stimulating the system it proves Diaphoretic. *

Yellow Saunders its virtues are less than that of Sassafras w^c is extracted by spirit it is used more for its elegant color particularly the red Saunders than for any medicinal qualities.

Sarsaparilla that w^c is kept in the shops appears to have very little strength, its a principle Ingredient in the Lisbon Diet Drink. So much famed of late for its virtues in curing the venereal Disease Dr. Fordyce in the vol. of the

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Medical essays of London relates the cure of several persons of the venereal disease by the use of it but perhaps this was owing to the mercury they had before taken however it ought to be tryed by practitioners. I think the common decoction of Sarsaparilla is much too weak. x

Contrayerva the root is used it has some degree of acrimony its Odor is weak it is reckoned by most Alexipharmic hence given, in Low Fevers, but if has any efficacy it can do no good in these small doses of a grain or two as it is commonly given, since a Drachm or more will have no great effect upon the body.

(b) Aromatics these are all united by sensible qualities they have a fragrant smell an agreeable taste & contain a very heavy essential Oil growing chiefly on the Torrid Zone, the first 6 in the Catalogue is preferable to the others, they all Stimulate help digestion, & create an appetite, they are hurtful in all inflammatory Cases by their heating & Stimulating qualities, joined with bitters they have been found to have good

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effects in cold Diseases & intermittent Fevers; they are used in Diet as Condiment from their agreeable Aneroma Cortex Winteranus or Canell alba & Ginger are less fragrant than the others, & Pepper has the least odor, but is the most acrid; hence it appears how little Judgement can be formed of the virtues of any Substance by their Odor, the Taste being much more certain but even this is fallacious ^{many} ~~times~~ ^{times}, particularly in mercury w^h has no acrid Taste, But yet is Corrosive.

The Essential Oil of these Aromatics is less acrid than they are in Substance.

Cebub, Cardamon, & grains of paradise are less aromatic than many others.

Galangal has very little virtues.

Snakeroot contains but very little Essential Oil this with Contrayerva is the only simples employed at present in the cure of Fevers D. Pringle says that snakeroot is antiseptic & he recommends it in Fevers.

Zedoary has an antispasmodic quality joined with an aneroma.

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Lilly of the Valley is an instance of the bad effects w^e may accrue by admitting substances into medicine only by their odor as this plant is possessed of a poisonous acrid quality.

Genseng is a weak acrid Aromatic, is a very good Masticatory, but it is not possessed of much virtue.

Cascarilla was much used in Germany but is now fallen into disrepute it has a crid poisonous qualities, apt to heat irritate & cause a copious Discharge of Sweat it is somewhat styptic, Stahl recommends it as equal to the Bark in curing intermittents. The French use it in the cure of Dysenteries.

Aspalathum & Rhodium are more used by perfumers than Medicines.

Benzoin & Storax may be sublimed in flowers they give a good Odor, it is said the gum of Turpen will give flowers like the Benzoin, they are said to be pectorals but the use of Stimulating pectorals is doubtful, their Salts are Diuretic & Diaphoretic
(i) Amara Carlicka these are not simple bitter but are stimulating too they check the acetous fermentation

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& Differ in aromatic quality they stimulate the
Stomach & hence create an appetite with warm wa:
:ter they will cause vomiting, they stimulate the
Intestines in a small degree much in the same m:
:anner as the bile does & hence prove gently purg:
:ative, some of them are used as anthelmintics but
not always with success their efficacy in this re:
spect seems to consist in their stimulating Stomach
& Causing it to eject the worms & not by destroying
them. They stimulate the Stomach & thus prove Diu:
:retic, & they are reckoned good in the Jaundice.
in the Catalogue from Abrotanum to Anacetum
inclusive belong to the Syrgenesis Class of
Linnaeus.

Abrotanum mas & foemina & Abynthium roma:
:n & Vulgare have a strong bitter, common wo:
:rwood is the strongest bitter, the others have an
aromatic quality joined therewith.

The Abynthium of the Alps is used
as an anthelmintic.

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The *Chrysomelidae* of the life is very
 common in the country, but the others are
 in the *Chrysomelidae* have a strong life, common in
 the *Chrysomelidae* and *Chrysomelidae* are very common.

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Carduus Benedictus contains less oil
than the preceding it is a very pure bitter w^c may
be extracted by cold water.

Caroline has an acrid root.

Chamomile has an acrid bitter odorous oil.
it was used in the cure of intermittents before use
of the Bark was known, in large doses it sometimes
proves purgative: Simon Pauli says it decocti-
ons contains a salt, w^c is confirmed by Heumann.
Wild Chamomile Dr Langerish says is good
in rheumatic pains producing sweat.

Sem: Santonicum or worm seed is a strong
bitter, it agrees nearly with the preceding.

Tanzy is antiseptic Aromatic & mild bitter.

Orange & Lemon Peel have their bitter
contained in their oil contrary to any of the ab-
ove, they are acrid & tonic. Currosia apple is.

Gentian & Centuary minor are of the same
genus they are very good & agreeable bitters equal to any.
Jesuits Bark its proper name is China Prince
it belong to the order of bitters having all the

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the properties of a bitter, has an acrid resin, is as-
:tringent, & proves purgative when given in large
doses like Rhubarb, its purgative quality over-
:ering its astringency, it is a powerful remedy in
habitual Costiveness in a dose of ʒi once a day,
(Females are most subject to Costiveness from a
weakness of the vis vite,) it cures intermittents
by strengthening the whole system.

Lecture 13th

There are many cautions necessary in eat-
:ing the Bark; in the last stages of autumn,
:nal Dysenteries it proves beneficial by its
:stringent Tonic qualities, as these kind of Dy-
:enteries are often attended with a feverish
Diathesis; its powerful effects in stopping of
gangrenes & mortifications is well ascertained; ga-
:ngrenes proceed either from Inflammation & heat
:lidity & weakness as in the Dropsy in this
last case the Bark has a singular efficacy by
strengthening & bracing up the solid & causing a
laudable suppuration of the mortified part

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but in inflammatory Gangrenes it is hurtful;
in intermittents it neither excites heat, nor increa-
ses the circulation, but proves a Tonic it is found to
efficacious in external ulcers & in the Small Pox
but there it should be used with caution, for when
there is redness round the Pox w: indicates a degree
of Inflammation it must not be given, but in a lang-
uid state it is very beneficial, in the secondary
fever when attended with a putrid Diathesis it may
be given, but it is often attended with too great a
degree of Inflammation; in a Phthisis Pulmonalis
it is found to be not very serviceable, nor in a Hæ-
moptoe if attended with an inflammatory Diathesis,
as is often the case; it is recommended by Dr Fordyce
& Dr Ferrius in scrupulous cases, but these
seem to be beyond its reach to effect; In spasms, as:
Hæma, Hypochondriac & Hysteria cases it has som-
times proved beneficial, & in most Periodic disea-
ses; in the Chorea chronica the use of the bark
after sufficient evacuation is strongly recomm-
ended by Sydenham; in the Chlorosis of Virgins

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is always attended with a longer steel & the
 the Bark has been found to have good effects, &
 in Hemorrhages of the Uterus & Low habitual
 Hemoptoes it proves beneficial; Haller recom-
 mends it in a Jaundice but I believe it will
 have but little good effect.

as intermittents are apt to return after be-
 ing cured the bark ought to be taken freely
 & for a long time after the Paroxysms have
 ceased as a preventative, for relapses are comm-
 only more difficult to remove than the former,
 & it ought to be used as a preservative in the
 seasons of this disease; It is common not to give
 it in the excess of the fit. It is best given in
 substance its extracts are not so good as the
 finest parts fly away, a watery menstruum
 is better than a spiritous & Infusion better
 than Decoction for by boiling its active part
 is greatly dissipated.

It is found to have good effects in the Chin
Cough & if children will not take it by the

It is a very common thing to find
 the same thing in different places
 and at different times. This is
 because of the nature of the
 things themselves. They are
 not fixed in one place or
 time. They are always
 changing. This is why we
 find the same thing in
 different places and at
 different times. This is
 the nature of things. They
 are always changing. This
 is why we find the same
 thing in different places
 and at different times.

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mouth it is found effectual in Clysters, In Infractions
of the Lungs bleeding should be premised.

Calamus this is placed next to the Rash from
its being esteemed good in Intermittents Dr. Haller
orders it in doses of ℥ij.

The three following belong to the Verticillate class of Tournefort
Ground Pine this is good in the gout & in German
is used in the cure of Intermittents.

Marrubium Album is esteemed Pectoral

Dictamnus Albus is accounted cardiac & Uterine.

Hops is a very useful bitter checks fermentations
indignors & prevents an acetous fermentation therein,
it is a very grateful bitter gives a pleasant flavor
to ales, some Physicians imagine it produces calculi
in the body but I think it more commonly
proceeds from a disposition in the body.

Marsh Trefoil is bitter & Antiscorbutic.

Thus we have finished all the amaracalida as
they are called & it should be observed they are
better when Dry than when Green, & they should be

given in substance if we would expect any benefit from them, water extracts the strongest bitters from them but spirits the purest, Alkalies do nothing towards extracting their virtues, but heighten the color of the Tincture.

(4) Amara Trigida these are very acrid but may be rendered mild by blanching, the first viz Cichory Dandelion, Endives, & Lettice, are of the Syngenesia class of Linnaeus nearly of the same virtues most of this class being very acrid & Poison they are aperient open obstructions of viscera & in large doses prove Laxative.

Dandelion is aperitive Laxative & Diuretic
Tumitory is succulent is a sooty bitter aperient Laxative & good in the Hypochondria.

(5) Amara Acrick

Arum is very acrid when recent but loses its acrimony when dry it stimulates is Laxative & Diuretic

Euphorbium is very acrid & Stimulating is Laxative & is a powerful Stimulatory scarcely used except externally to cleanse ulcers & carious bones.

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Mastwort is acrid & Laxative.

Iris purpurea & florentine are acrid when recent
florentine Iris is a remarkable Hydrogoge Purge
 in the Dropsy, 50 guttes of the juice of the re-
 cent vegetable will Purge. As most in this
 genus there is a great diversity of species dif-
 ferent in virtues, this species we are speak-
 ing of is very acrid.

Pyrethrum, this belongs to the Lyngena
Clas of Linnaeus is very acrid so as to cause blisters on
 the skin it is sometimes used for the cure of the
 Tooth Ach.

The Lesser Leek is Emetic.

Staves Aqria is very acrid it kills Bugs
 of Scine & Oil we shall speak hereafter.

Ex Animalibus

Cantharides are very powerful Stimulants ap-
 plied externally they excite heat & raise blisters,
 given internally they are very apt to effect the

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urinary passages, why they should affect these parts before the stomach seems a little uncommon & perhaps may arise from their having a very highly concentrated salt w. is not disengaged before they arrive near the Kidneys or perhaps there is an elective attraction of the same to those parts. to prevent this bad effect large draughts of barley water Blauewind Tea or any other Demulcent should be taken freely: they are sometimes given in small doses as a stimulant to promote Labour, & as a Diuretic in Dropsies & Nephritis, they will sometimes cure the Gleet by inflaming the parts & suppressing the running they have also been given in the Fluor Albus for the same purpose, as all other Diuretics they are Diaphoretic & D. Mead recommends them in the Lepra but as this disease is wholly topical & does not appear to affect the whole mass of blood external applications are more proper the best manner of giving them is in Tincture beginning with small doses of 30 or 60 gutt. & gradually increasing the same.

Millipedes is inferior to Cantharides they are but moderately Stimulating.

Cochineal this is now well known to be an Insect they have but little virtues as a medicine & chiefly used for the sake of their elegant Color.
under the Class of Stimulantia may be reckoned the Nutrientia, Astringentia, Sedativa, Antispasmodica, alkalina & Sales Nutri.

The first of these is the fact that the
 human mind is not a blank slate at birth.
 It is filled with a vast amount of
 information which is acquired from
 the environment. This information is
 stored in the memory and is available
 for use at any time. The second fact
 is that the human mind is capable of
 learning. It can acquire new
 information and skills through
 experience and study. The third fact
 is that the human mind is capable of
 reasoning. It can analyze information
 and draw conclusions. The fourth fact
 is that the human mind is capable of
 imagination. It can create new
 ideas and concepts. The fifth fact
 is that the human mind is capable of
 emotion. It can feel joy, sadness,
 anger, and love. The sixth fact
 is that the human mind is capable of
 communication. It can express its
 thoughts and feelings to others.
 The seventh fact is that the human
 mind is capable of problem-solving.
 It can find solutions to difficult
 problems. The eighth fact is that the
 human mind is capable of self-reflection.
 It can think about its own thoughts
 and feelings. The ninth fact is that
 the human mind is capable of growth.
 It can develop and improve itself.
 The tenth fact is that the human
 mind is capable of change. It can
 adapt to new circumstances and
 learn from its mistakes.

Class 5. Sedativa.

Lect. 14.th

Sedatives are such Medicines as diminish the force of the system & the moving fibres acting upon the solida viva; Venesection is sometimes a sedative by its lessening the quantity of blood & consequently the force of the solids. As it seems difficult to know whether sedatives act immediately or mediately upon the Nervous system we will endeavour to explain a little their acting, it is the common opinion that the brain is the sensorium commune from w.^{ch} sense & motion is communicated to all the parts of the body: Some have imagined that sedatives act by oppressing the brain & preventing secretion of Animal Spirits, others imagine that they coagulate the blood, but it must be that sedatives act immediately upon the Nerves, as is evident from their quick action upon the part to w.^{ch} they are applied; taken internally they act primarily upon the Stomach & on the rest of the system by the Sympathy of parts.

The heart of a living animal being cut out it

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will continue its motion sometime out of the body according to the experiments of D. Whist. this motion is immediately suppressed by Sedatives.

Sedatives act upon the Sensorium commune two ways 1.st by diminishing the Secretions of the Nervous fluid 2.nd by destroying the mobility of the fibres, thus large doses of Sedatives are apt to cause a Paralysis of the lower Extremities & the inequality of their acting depend upon the more or less irritability of the fibres - That irritation does not always increase the Secretions is evident in fevers, the action of Sedatives is promoted by ~~keeping~~ keeping all things quiet & still & allowing the patient to sleep. the animal spirits being reckoned less agitated during sleep than vigility & Dreams are a Ruminance of the mind of things done the Day before or some other time, or they proceed from some oppression, obstruction or irregularity of the fluids during sleep. as a person having ^{an} oppression at his heart Dreams that some heavy person is sitting upon his breast as in an Ephialtes a Dry person will Dream of Drink &c.

The first of these is the
 fact that the population of
 the country is increasing
 rapidly. This is due to
 a number of causes, the
 most important of which
 are the following:—
 1. The increase in the
 birth rate. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The increase in the
 number of marriages.
 (b) The increase in the
 number of children born
 to each couple.
 (c) The increase in the
 number of children who
 survive to the age of
 five years.
 2. The decrease in the
 death rate. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The improvement in
 the medical profession.
 (b) The improvement in
 the sanitary conditions.
 (c) The improvement in
 the food supply.
 3. The decrease in the
 emigration of the
 population. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The improvement in
 the economic conditions.
 (b) The improvement in
 the social conditions.
 (c) The improvement in
 the political conditions.
 4. The increase in the
 immigration of the
 population. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The improvement in
 the economic conditions.
 (b) The improvement in
 the social conditions.
 (c) The improvement in
 the political conditions.
 5. The increase in the
 natural increase of the
 population. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The improvement in
 the medical profession.
 (b) The improvement in
 the sanitary conditions.
 (c) The improvement in
 the food supply.
 6. The decrease in the
 natural decrease of the
 population. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The improvement in
 the medical profession.
 (b) The improvement in
 the sanitary conditions.
 (c) The improvement in
 the food supply.
 7. The increase in the
 natural increase of the
 population. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The improvement in
 the medical profession.
 (b) The improvement in
 the sanitary conditions.
 (c) The improvement in
 the food supply.
 8. The decrease in the
 natural decrease of the
 population. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The improvement in
 the medical profession.
 (b) The improvement in
 the sanitary conditions.
 (c) The improvement in
 the food supply.
 9. The increase in the
 natural increase of the
 population. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The improvement in
 the medical profession.
 (b) The improvement in
 the sanitary conditions.
 (c) The improvement in
 the food supply.
 10. The decrease in the
 natural decrease of the
 population. This is due
 to a number of causes,
 the most important of
 which are the following:
 (a) The improvement in
 the medical profession.
 (b) The improvement in
 the sanitary conditions.
 (c) The improvement in
 the food supply.

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All the parts of the body are not always asleep at the same time as is evident in those called the Somniambuli w: sometimes do things they could not do if awake, this is accounted for by supposing the mind is more intent upon the act when waking, when it apt to be taken of by every accident that occurs. Dreams are mostly incoherent, a Delirium being much the same as a Dream.

Most of the secretions are lessened in the time of Sleep, as the action of the Stomach, Intestines, the Secretion of the Bile & Pancreatic juices & Saliva as is evident from the stopping & salivation in the time of sleeping, on the contrary constant Stricture keeps up the secretion as in a Stone in the bladder w: if it causes too much irritation opium may be used for taking off the Spasm caused by the irritation of the Stone by w: means the passage being dilated if the Stone is not large it is often discharged the next time of making water. Opium does not stop the regular Discharge of the Menses or Lochia I think its owing to a Diminution of the mo.

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tion of the Heart that people are more Subject to
catch cold when asleep than when awake.

In the Catalogue from 1 to 2 are Sedatives Strict-
ly so called from thence to the end they are not so
but properly enough may be called Refrigerants
acting as a refrigerant first & after that with a Se-
dative quality.

Of the Genus of Rhæades we have only set
down one & that the most commonest in use of any
viz: the Poppy this is properly a Sedative; Opi-
um is made of the juice of it, this is a very power-
ful medicine vide D. Alston in the medical Essays
of Edinburgh on opium, its effects seem to be various
at first, after taking it there is an increase of the Pulse
then a Calmness & Serenity of the mind with a flush-
ing in the face, after that a sensible irritability &
irascibility, & lastly profuse sleep, upon waking
the body is Cold languid & weak, thus we see there
is a mixt of Stimulating & Sedative quality in
Opium & it is the conjunction of them that causes
Delirium the first irritating & the latter causing a suppression
of the Nervous fluid.

Opium is a very good Cordial but yet it is improper in inflammations: As to its Anodyne effects we must first observe that pain is of three kinds 1. from Distention. 2. Sprain. & 3. Irritation, of the first kind is the Pleurisy, of the second the Cholick, & of the third a Cancer or any other the like thing. In the first kind of Pain opium does no good except giving a little transient ease after w^h the pain returns with more violence, most acute diseases are owing to the same Cause, & thence opium is not good in them; The Toothach is mostly of the Rheumatic kind in w^h opium is unserviceable but if the Toothach arises from a Sprain or irritation it will have good effects.

The Gout often arises from a Distention & Inflammation & hence opium should not be given either in the beginning of the Disease or of a Paroxysm, at w^h times strong drink has been found to do more good by increasing perspiration.

Opium does good in Suppurations & in the Small Pox in the latter Case costiveness must be avoided by Lenitives however during the Eruption & in the secondary Fever Opium must not be given, but in the secondary Fever Evacuations are to be made,

The first of these is the fact that the
 human mind is not a blank slate at birth.
 It is filled with a vast amount of
 information, which is acquired from
 the environment. This information is
 stored in the memory, and is used to
 guide the individual's actions. The
 second fact is that the human mind
 is capable of learning. It can acquire
 new information, and it can use this
 information to solve problems. The
 third fact is that the human mind
 is capable of reasoning. It can use
 logic to draw conclusions from
 premises. The fourth fact is that the
 human mind is capable of feeling.
 It can experience emotions, and it can
 be influenced by these emotions. The
 fifth fact is that the human mind
 is capable of imagination. It can
 create mental images, and it can use
 these images to plan for the future.
 The sixth fact is that the human
 mind is capable of communication.
 It can express its thoughts and
 feelings to other individuals, and it
 can understand the thoughts and
 feelings of other individuals. The
 seventh fact is that the human mind
 is capable of self-reflection. It can
 think about its own thoughts and
 feelings, and it can use this
 reflection to improve itself. The
 eighth fact is that the human mind
 is capable of growth. It can develop
 new skills, and it can use these skills
 to achieve its goals. The ninth fact
 is that the human mind is capable of
 change. It can be influenced by
 new information, and it can use this
 information to change its beliefs and
 attitudes. The tenth fact is that the
 human mind is capable of love.
 It can love other individuals, and it
 can be loved by other individuals.

In Spasms Opium is a universal remedy perfect-
 ly removing the Disease is evident in the Spasmodic
 & Opisthotonic Diseases subject to young people in the
 hot climates w^h it will remove, it removes the spasms
 of the alimentary canal & hence cures the Colic
 but as many other things may cause a Colic besides Sp-
 -asm, as Hysteria & Hypochondriac affections, Hemorrh-
 -oids, suppression of the menses, Hernias, Nephritis, Prisons,
 Irritation from extraneous bodies, as Worms in the
 Intestines, crudities hardened feces, & Constipation
 of the Intestines, & lastly Inflammation, in all these
 Cases except the four last Opium is serviceable as
 also in Diarrheas, Dysenteries after gentle evacu-
 -ation. D^r Radwallader orders Opium in the Dry bel-
 -lyach with Crem: Tartar; in the Rhac Pasion opium
 has procured stools when purges would not by remov-
 -ing the Spasm; given with purges simul et temel
 even in volvulus it has done good, De Haen
 recommends it in the Colica Pictoria.

Opium removes Spasms of the uterus & Suppr-
 -ession of the menses from the same Cause, it rem-
 -oves false Travelling pains & promotes true ones,

The first of these is a very common one, and is
the result of the fact that the mind is not
a single entity, but a collection of many
different parts, each of which has its own
particular function. The second is the fact
that the mind is not a single entity, but a
collection of many different parts, each of
which has its own particular function. The
third is the fact that the mind is not a
single entity, but a collection of many
different parts, each of which has its own
particular function. The fourth is the fact
that the mind is not a single entity, but a
collection of many different parts, each of
which has its own particular function. The
fifth is the fact that the mind is not a
single entity, but a collection of many
different parts, each of which has its own
particular function. The sixth is the fact
that the mind is not a single entity, but a
collection of many different parts, each of
which has its own particular function. The
seventh is the fact that the mind is not a
single entity, but a collection of many
different parts, each of which has its own
particular function. The eighth is the fact
that the mind is not a single entity, but a
collection of many different parts, each of
which has its own particular function. The
ninth is the fact that the mind is not a
single entity, but a collection of many
different parts, each of which has its own
particular function. The tenth is the fact
that the mind is not a single entity, but a
collection of many different parts, each of
which has its own particular function.

it removes after pains & helps the discharge of the
Lochia in the Pterus from an obstruction of the
Ductus Cholodochus it proves beneficial.

Lecture 15.th 27 March 1766.

The Heart is sometimes tho' rarely subject
to Spasms & they are only cured by Opium, disor-
ders of the Lungs if attended with any degree of
Inflammation, Opium is improper, Asthma's that
are purely Spasmodic Opium relieves but if
they are attended with inflammations of the Lungs
it proves hurtful, in Spasmodical disorders
of the Head it is beneficial if they are not
attended with inflammation, these spasmodic dis-
orders of the Head are either Idiopathic or Sy-
mpathic from a disordered Stomach or other
part, in the first case Opium is good but in
the latter case if the disorder is in the Stomach
Vomits & Stomachics are of more Service.

The Clavus is a spasm of the part & mostly Idia-
pathic in w^h case opium removes the disorder.

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Spasms of any part from an injury done to the Nerves by a wound fracture as in Lacked Jaw Opium is very good.

3. In pains from irritation Opium proves serviceable as in a Cancer, but pains from a Luxation Contusion or Wound being mostly attended with Inflammation it should not be given, some recommend giving it just before performing an Operation, it is good in all immoderate discharges of any kind, a French Academiist recommends it in Intermittent Fevers, but in this case it must be used with caution & given so as to operate just before the fit comes on; joined with the Bark it has been given with success by its removing the spasms common in the Paroxysms of these fevers.

In continual fevers if of the Inflammatory kind Opium proves prejudicial, but if they are of the low nervous kind it is administered with success for by its stimulus it raises the Circulation & by its sedative quality it removes the Spasms; Opium is found to remove violent Spasms as effectually as Camphor Musk or any other Medicine known.

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Catarachs are an increased discharge of mucus from any part as the Schneiderian membrane of the nose, the Tauces &c. often very thin & acrid, after bleeding Opium is found very serviceable by bringing on a Diaphoresis & correcting the Acrimony.

Something if proceeding from irritation Opium does good or if it proceeds from a Spasm or is Sympathetic.

For Diarrheas & Dysenteries Opium is serviceable, in the latter of the two there is often an inflammatory Diathesis & therefore it must not be given until sufficient evacuation is made by bleeding Vomit & Stool.

In a Tenesmus Opium may be given as a palliative in the Evening to prevent the patient from getting up so often in the night by w.^c means they get cold stop perspiration & cause the humors to fall upon the Bowels.

In Evacuations of blood: of this there is but one that is natural viz: the Menses in women these are sometimes immoderate owing to three Causes 1.st Inflammation 2.^d Spasm 3.^d Debility of the uterine Vessels, in the first case Opium is improper but in the two latter Cases its exhibited with good success, but if too long used it may cause a weakness

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in the Fibres of the Uterus & thence Subject it to a return
of Spasm.

Symptoms of Abortion are commonly relieved by bleeding Opium here also may do good: in habitual Abortions Opium will sometimes prevent it when all other medicines fail, but in the common symptoms of pregnancy as vomiting, it must be given with Caution.

Hemorrhages, if attended with an Inflammation Opium must not be given; In the Measles Opium is good this distemper is by no means like the Small Pox, as not tending to putrefaction & suppuration.

With regard to the pharmaceutical treatment of Opium they are all nearly alike in virtue, both Spiritus & watery Menstruums extract its virtues.

(6) Umbellatae all this order should be used with caution as they have poisonous qualities joined with their medicinal.

Hemlock has great encomiums bestowed on it by Dr. Stork, who says it will cure cancers, Cataracts & venereal diseases without any sensible Operation, or without increasing any one secretion, but I believe most

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who have used it either here or in great Britain,
 find that it operates by stool Urine & Sweat, it also cures
 Tremors Vertigo &c. w^h may be removed by Valerian
 in Cancers it first changes the Solids & then alters the
 Fluids & thus sometimes proves effectual in curing
 them, but not always, I believe there was never was
 many confirmed Cataracts cured by it as they seem
 to be beyond the use of medicines, St. John, also rec:
 omends it in Straneous swellings & in a scrophula,
 but a true scrophula was scarcely ever cured only
 by the use of it, yet we ought not to despair of its
 medicinal virtues perhaps its not been taken at
 a right time or not rightly prepared may be the
 reason why it does not have no more good effects,
Water Hemlock this is a stronger poison than
 the common hemlock but perhaps it might make
 as good a medicine if rightly administered.

(C) Luridice of w^h we have set down 6 they
 all nearly agree in their narcotic & sedative quali-
 ties.

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& therefore we shall only take notice of three viz: *Belladonna*, *Hyosciamus* & *Nicotiana*.

Belladonna or *Solanum Lethale* is of a poisonous quality but may be made a good medicine. *M^r Ray* says it will remove scirrhous Tumors & Cure Cancers, In the Edinburgh Hospital, there was a woman & her son who had each of them a cancerous Ulcer on the Leg they first began with the boy giving him gr^{ss} to gr^{ss} daily gradually increased after some time he felt a pain in the Throat & a difficulty of swallowing & his Leg healed up, they then left off giving him any of it for some time when the disorder in his throat left him & his leg broke out again, upon w^h the same medicine was again ordered for him & after taking it again a little time his Leg again healed up, but he was taken with a vomiting of blood by w^h he died; the mother took the same medicine but with more caution, & was relieved thereby but not entirely cured. These two instances prove the *Belladonna* is a very powerful medicine.

Hyosciamus *Benbani* intoxicates & it is a powerful Glyster has been recommended in Cataracts *Hepatitis* & *toes* &c. externally its virtues are similar to that of the cicuta.

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Nicotiana belongs properly to this order from its narcotic qualities, it is a very good & powerful stimulatory if not too frequently used, as a Masticatory or Smoked it does hurt by discharging too much of the saliva w^{ch} was intended for digestion, it is a very powerful emetic operating in doses of $\mathfrak{z}\mathfrak{ss}$ or $\mathfrak{z}\mathfrak{i}$. The smoke of Tobacco injected as a Clyster proves beneficial in incarcerated Hernias, its active parts are dissipated by boiling, hence some use it in a syrup as a Pectoral, made into an unguent & applied externally it dissolves scirchi &c.

2. Lettice & Lauro Cereus vid: L: Brown in the Philosophical Transactions.

Laurel The virtues of this resides in the Bark in moderate doses it may be given with success.

Bay Berries are narcotic, the leaves bruised & applied externally are said to dissolve white swellings.

Coffee & Tea, much have been said of these substances, but nothing determined; those whose fibres are strong these may do good, but in lax fibres the warm water may do hurt, those properties of promoting digestion relieving

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[Faint, illegible handwriting in cursive script, likely a historical manuscript or letter.]

Cruditie's &c: the warm water itself may do, whereas those properties have been attributed to these substances, their effects may be different in different constitutions being serviceable to some & hurtful to others.

Coffee is found to have the least effect of the two, yet this drunk in the evening, causes genty pains in the Stomach of those subject thereto. upon the whole it seems that too frequent use renders their effects less perceptible; it seems as if they were too stimulating to be used in Diet & therefore would make very good medicines, they are properly ranked among sedatives by their weakening the nerves.

Saffron

Symphytes have been reckoned anodynes &

Hypnotic.

(e) Opium & Alcohol; what has been said of Opium may be applied to these substances.

Acids destroy the mobility of the parts to which they are applied.

Neutral Salts

Emollients act by relaxing the parts.

Lecture 16th

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Class 6th Antispasmodica.

Antispasmodics are such medicines as allay the irregular motions in the Human body, they might be divided into those that act by a stimulus & those that act by a sedative quality.

of Fossils

Ambergrease belongs to the fossil kingdom it is an odorous gummy substance used more as a perfume than as a medicine.

Amber is a pellucid substance its salt we shall speak of hereafter, its oil is pungent & odorous, & thence good to be held to the nose of a person in fits to bring him to.

Petroleum is an antispasmodic Pectoral, & good in obstructed menses from a spasm the Common Petroleum is often adulterated with two thirds its quantity of Oil of Turpentine, it has been given in aqua, & is sometimes applied to the feet & hands in very cold weather to prevent the frost from hurting them it is also sometimes

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applied to Erysipelas, Pedemorous swellings & Parythic
cases in the last of w.^e it often does good by its pene-
trating quality if also rubbed on the spine.

Of Vegetables

The Artemisia Parviaca Matricaria &c: belong to the
Verticillata class.

(a) Herba Foetida the virtues of these depend upon
their Essential Oil they remove spasms & hysteric com-
plaints &c:

Aristolochia is good in the Gout.

Atriplex Chila is a very good Hysteric.

Ruta is good in hysteric complaints & in the Epilepsy given
by way of Clyster it destroys the Ascarides.

Savin its Essential Oil is very acrid & Stimulating it is
said to destroy worms by being rubbed externally on the belly.

(b) Gumma Foetida the virtues of these gums resides
in their Essential Oil which rises in distillation either w.th wa-
ter or Spirits those w.^h have most of this Essential Oil are the
most powerful Antispasmodics as Asa foetida they are all
stimulating & used sometimes by some people as Condiments,
some of them has been used as Anthelmintics particularly

x Camphor is a warm diaphoretic & antiseptic: it does
not however heat the Constitution so much as might
be expected from its hot pungent taste
Heumanns C.

apospoetida they are also Diuretic & Diaphoretic some of them as the Ammoniac & apospoetida are Pectoral they are powerful Emmenagogues & are supposed to act upon the Uterus by Stimulating the same causing turgescency of the Vessels & an increase of the blood circulation in those parts, the Gum Pills given 2 or 3 of them abt. 3 times a day or pro re nata proves powerful Emmenagoges & antihysterics.

(c) Camphora is a very strong substance & given in two large doses may prove poison, it is a gummy substance soluble in alcohol & unites with acids it is got from a species of the Laurus or Lauro-cerasus Margenia of Parcelona tryed it upon beasts & it proved poison to them, its sensible qualities are, it is very acrid to the taste & of a strong smell, hence it appears to be a very powerful Stimulus, disputes have arisen whether Camphor is of a hot or cold nature, but it is now pretty well agreed upon that it is of a cooling nature, it is found to do good in Hypochondriac & Melancholic cases, in the Philosophical Transactions we have an account of Camphor given every day & cured

The first of these is the
 fact that the number of
 cases of the disease has
 been increasing steadily
 since the first of the year.
 This is due to the fact
 that the disease is now
 more common than it was
 a few years ago. The
 reason for this is that
 the disease is now more
 easily spread than it was
 before. This is due to the
 fact that the disease is
 now more common than it
 was a few years ago. The
 reason for this is that the
 disease is now more easily
 spread than it was before.

the Maria, Hoffman says it will cure the Lues Venerea but perhaps it only allays the inflammation of the Gonorrhoea but it also perhaps weakens the venereal Vires as its found good in Nocturnal Pollution for w^c the Cold bath & Opium are very good also

Camphor has been reckoned sudorific but its found to have but little of that quality. Dr Pringle says its a powerful Antiseptic, but infine we must impute its principal effects to its action on the Stomach.

(d) Bassamum is a weak Antispasmodic & Sudorific.

Peonia its virtues are not well ascertained it has been reckoned good in Epilepsy.

Valerian is good in Epilepsy. I have known $\frac{ss}{ss}$ given & it had but very little effect, tho^{commonly} $\frac{ss}{ss}$ given in the small dose of $\frac{ss}{ss}$ twice a day its said to be gently purgative it has a strong odor & Sweet taste & is also Diuretic, it is the basis of the Cephalic powder in Edinburgh Dispensatory.

Empyreumatic Pills are nearly like that of Camphor.

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Liquid Ether is inflammable free from any acrimony it is a very powerful Antispasmodic in pains of the head & teeth its action is extremely quick & penetrating in inflammations it is cooling, D^r Hoopman diffused it in Spirit of wine & called it his Liquor Andry: Mineralis giving it very great encomiums.

Essential oils the foundation of these is a spiritous Rector they grow thick by standing, they have mostly the odor of the plant but not always all the other sensible qualities of the plant, for the Oil of worm-wood is not bitter.

The Verticillate & Umbellate give an Essential oil similar to their substance, the Conifera & Aromaticae have a stimulating oil distilled waters are impregnated with these oils, Pepper Mint water is endowed with the properties of its oil & is Antispasmodic.

Of Animals

Musk, its virtues depend upon the Essential oil it contains it is very odorous & volatile & a very powerful antispasmodic, in spasms of the Stomach Hysteric & Hypochondriac affections, Thicup Thac Passion

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[Faint, illegible handwriting on the edge of the adjacent page.]

& Colica Pictonium joined with Opium it is very effectual in a Tetanus & Rabies Canina it has good effects, in fevers it is used with great success particularly if attended with spasms subultus Tendinum Tremors &c.

Musk is also found to have the best effect of any medicine in Maniac cases.

Libethum is chiefly used as a perfume.

Castor has an Essential oil it is of a foetid smell but less odorous than Musk & a weaker antispasmodic we have two tinctures of it in the Shops a simple & a compound Alcohol is its best Menstruum.

Volatile alkaline Salts their virtue depend upon an oily part & pungent odor, they are acrid to the taste have a quick penetrating action, & therefore are antispasmodic & in Hypochondriac affections prove beneficial. They are supposed to be alexipharmic as all alexipharmics are antispasmodic they are pectoral & good in Asthma they were formerly reckoned to be septic but Dr Pringle has proved by experiments that they are antiseptic & he

Dear Miss

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I gave them in putrid fevers, the Caustic Alkalies are very powerful Antispasmodics applied to the nose only being similar to the Eau de Luce the: it may all be taken internally if well Diluted.

Soot has a native ammoniac a volatile alkali & a Native Oil in it, hence its Antispasmodic virtues its tincture however is nearly inert.

Astringents by bracing up the flaccidity of the parts may remove Spasms.

If Spasms arise from an over distention of any part Emmollients may remove the same if they arise from Acrimony Demulcents will remove them.

Lecture 17.th

Class 7.th Stenūntia.

The first of these we shall mention is water & here we shall confine ourselves to its effects when taken internally, of its external effects we shall speak hereafter.

Water taken into the stomach cold proves a Stimulant & causes the contents of the stomach & Intestines

The first of these is the
 fact that the number of
 the letters in the word
 is the same as the number
 of the letters in the word
 and the number of the letters
 in the word is the same as
 the number of the letters in
 the word.

The second of these is the
 fact that the number of
 the letters in the word
 is the same as the number
 of the letters in the word
 and the number of the letters
 in the word is the same as
 the number of the letters in
 the word.

quickly to pass off. hence it has very good effects when
 drunk after a full meal, Chocolate often causes a
 sense of heaviness at the Stomach, which is relieved the
 best of any way by a Drink of Cold water, it has
 all the good effects of neutral salts operating in the
 same manner they do; it is a Diaphoretic, in the
 Paroxysms of intermittents it raises a sweat & carries
 off the Paroxysm; in Inflammatory cases as the angina
na Pleurisy Phrensy &c. it is hurtful, warm
 diluents being much better; in the beginning of
 Fevers the vulgar Drink water w.^e has good effects.

Warm Water stimulates the Stomach & helps di-
 gestion hence Tea or Coffee are beneficial after libe-
 ral eating if not taken too free in w.^e Case they ca-
 use debility & relaxation, but in inflammatory cases
 warm water is beneficial also in arthritic & Rheuma-
 tic complaints from tension.

In the Intestines warm water proves diluent Det-
 ergent, & Resolvent increasing the Peristaltic mot-
 ion thereof & consequently the discharge of the faeces, so
 that in the quantity of a scotch pint equal to about
 two quarts it proves purgative, hence the purgative
 quality of most mineral waters may be deduced, more

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than from the Glaubersalt it contains we is often very small in quantity.

Simple water is one of the safest purges that can be used, producing no bad effects & yet causing an evacuation from the whole system, it cleanses & opens obstructions of the Mesenteric Glands & hence is good in the scrophulae, D. Ruysel recommends sea water as the most purgative, water carries off all saline & putrid matters promotes urine perspiration, & all the secretions & excretion & according to D. Hoffman comes nearest to a panacea of any medicine.

Alkalis act first upon the Stomach & next upon the whole system they dissolve coagulated lymph, they diffuse with the Serum & coagulated prove Diuretic & Diaphoretic.

Quicklime is a caustic substance & may be given in large doses, it is thought to dissolve the Stone.

Neutral Salts are but very little stannant & besides they are commonly given in too small doses to have much effect, they mix with the Serum & thence render it thin, & are good in Fevers. Nitre gives a very beautiful red color to beef.

Soap is composed of an Oil & an Alkali produces fluidity out of the body. & in the body in large quantities it is seen in the urine.

Anasarca arises from a defect of absorption in the body w^{ch} requires a stimulus; hence Mercury & Cantharides prove attenuants by their Stimulating & D. Alston took all his Attenuants from the class of Stimulating medicines.

Sulcia as Sugar, Honey, Dates, Raisins, figs, Liquorice &c. with the Nutrientia & Emollientia we have spoke of before

Class 2th Inopissantia

Having considered the fluids when affected with a lentor, we shall now consider them when in a too thin state.

The fluids may become too thin 1st by imbibing a too great quantity of fluids, tho' this very seldom happens as they are very subject to run off hence the body has been compared to a sieve. They more commonly act by relaxing the fibres. 2^d by a retention of some necessary secretion 3^d from immoderate Hemorrhages

4th From a diminution of Cohesion by putrefaction &c: as in the scurvy Cachexy &c: Acids of all kinds earthy or metallic salts with alcohol are the chief that belong to this class. but these alone cannot be employed in a sufficient quantity to have much effect. of Nutrients & astringents we have already spoke & of Demulcents we come next to speak.

Class 9th Demulcentia.

We come now to speak of Diseases arising from Acrimony. The humors in a natural state are very mild but they may become acrid many ways w^{ch} is removed by Demulcents w^{ch} sheath the acrid particles but do not change them all Oils & mucilaginous substances have this effect, but are most beneficial when joined together, the Serous part of the blood is the vehicle of Acrimony & with w^{ch} these substances easily mix, the Stomach is Subject to acrimony as is evident from the Heartburn Dysentery &c: when it gets into the blood vessels it is not evident because of the megrima or mucus that lines the sides of those vessels, but when it gets into the excretory vessels it is evidently perceived as in the

I have a number of letters from you
 and I am very glad to hear from
 you. I am well and hope this
 letter finds you the same. I am
 very much interested in your
 progress and hope you are
 making good use of your
 time. I am very much
 interested in your progress and
 hope you are making good use
 of your time.

I am very much interested in
 your progress and hope you are
 making good use of your time.

I am very much interested in
 your progress and hope you are
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 very much interested in your
 progress and hope you are making
 good use of your time.

mucus of the Bronchia causing a cough by its irritation the Albus Lochia & Catamenia are sometimes attended with acrimony & even hemorrhages from the uterus are sometimes caused by this acrimony in w^c case Demulcents are very good. Sperma Beti given to lying-in women has often very good effects.

(a) Asperifolia Comfrey is a very good Demulcent an extract from it is similar to Salop it is used sometimes instead of Mallows in Nephritic cases.

Dogs Tongue has been reckoned by some narcotic.

Pulmonaria.

(b) Semen Taxiracea are Demulcent from their mucilaginous substance as is evident. Some of them are Diuretic.

(c) Dulcia these are good in Disorders of the Breast they sheath acrimony especially in the Lungs & are very good pectorals.

(d) Gumma Mucilaginoso, the first of these mentioned in the Catalogue are the purest.

Gum Akabac is a very fine demulcent I have given the quantity of a $\mathfrak{z}$ at a dose of it.

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Starch is very good in Glysters.

Linglase is an animal demulcent but should not be given in Fevers & other diseases in alining to putrefaction. Nutrients & Emollients we have taken notice of before. Sedatives by stopping the motion of the vessels are Demulcent.

Lecture 10.th April 1.st 1766
Class 10.th Antacida

Gentlemen

Having spoke of the animal fluids with respect to their consistence, we come now to speak of them with respect to mixture.

all our fluids are generated from aliments w.^e are originally vegetables either immediately or by our feeding upon such animals as live upon vegetables. & as vegetables are of a different from our animal fluids, so they require to be changed in order to form them, w.^e changing is called Assimilation & is brought about by fermentation & mixture. The different stages of fermentation are three viz:

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1. *Rescent* 2. a degree beyond *acescency* 3. a put-
rifaactive fermentation.

A tendency to *acescency* in the Stomach has ge-
nerally been reckoned morbid but it is so far from being
so when in due bounds that it is both natural & necessary.
Air is sometimes in the body w^{ch} in a moderate degree is
necessary for Air & Heat are the two grand agents of
fermentation. The most apparent fermentations are
the vinous & Acetous, the former more mild, the latter
more violent & strong & when mixed with the Bile
forms a tertium quid the cyclus part of the mixt-
ure is received into the Lacteals by absorption or pre-
haps by elective attraction partly, & is carried into
the mass of blood with which it is mixed, after which
the more saline & serous parts pass off by urine &
Sweat these three different stages are distinguish-
able from each other.

A redundancy of Acid is often found in the
Stomach, but I believe a natural Acid was scarce ever
discovered in the blood tho' Boerhaave in his aphor-
isms thinks there may be; an Alkali sometimes abounds
in the body & these two species of acrimony are the only

The first of these is the fact that the
 human mind is not a tabula rasa, but
 is filled with ideas and impressions
 from the moment of birth. These
 impressions are the result of the
 senses, and are the foundation of
 all knowledge. The second fact is
 that the human mind is not a
 passive receptacle, but is an active
 power, capable of reasoning and
 judgment. The third fact is that
 the human mind is not a single
 entity, but is composed of many
 different faculties, each of which
 has its own proper sphere of
 activity. The fourth fact is that
 the human mind is not a static
 entity, but is constantly changing
 and developing. The fifth fact is
 that the human mind is not a
 solitary power, but is a social
 power, capable of communication
 and cooperation with other minds.

one found in the body, & I believe acrimony is often reckoned to be the cause of Diseases than it really is yet many diseases do actually arise from acrimony as the Small Pox & all other contagious diseases.

I shall now consider acids only as being in the prime vice in w^h in too great quantities they produce flatulencies gripings Diarrhea & Cholera Morbus, w^h is caused by eating too great quantities of low fruit or weak Stomach &c. Medicines w^h absorb this acid are of three kinds viz: absorbent, alkaline & Neutral salts.

(a) Absorbents these are either fossils or animal Substances of fossils we have set down three the Limestone Chalk & bone binders w^h are nearly alike in virtues the property of binding broken bones attributed to the last has no foundation that being entirely owing to nature.

Lapis Calcarinus is the foundation of quicklime its but a poor Absorbent, Chalk is the best Absorbent we might have mentioned here magnesia but its no better than Chalk well prepared.

Animal Absorbents dissolve in acids forming a neutral salt, they are all nearly alike in virtues, Dr Pringle says they are septic & therefore not to be given in putrid diseases.

Liquid shell has been reckoned Lithontriptic.

(b) Alkalies, the volatile alkali is too stimulating to be used alone in a sufficient degree.

Gala viva is an Antacid externally it is astringent & internally it does good in Hepatic cases.

Pixed Alkalies are either vegetable or Gossil, their virtues are nearly the same externally they are detergent & good in diseases of the Skin, internally they are absorbent & by stimulating the Stomach they prove Diuretic Boerhaave says they make a good purgative.

Neutral Salts & Acids by decomposing in the first passages prove absorbents of acid.

Borax has no virtues above common neutral salts nor could I ever observe any good effects from it as a Emmenagogue.

Soluble Tartar

Stimulantia Sedativa

Class II.th Antialkalina.

An alkali is the second species of acrimony. It but seldom occurs & that when the humors are in a putrid active state, it is reckoned of two kinds the one Acute such as happens in Fevers, the other Chronic as in Scurvy.

The first of these is the
 fact that the system of
 the world is not a
 simple one. It is a
 complex one. It is a
 system of many parts
 which are all inter-
 connected. The system
 is not a simple one.
 It is a complex one.
 It is a system of many
 parts which are all
 inter-connected. The
 system is not a simple
 one. It is a complex
 one. It is a system of
 many parts which are
 all inter-connected.

1 Acids these are either vegetable or fossil the vegetable are either ^{native} natural or fermented, but we shall only speak of them in general, externally they act as astringents if they are properly diluted but in a concentrated state they are so caustic as not only to eat away flesh but also to corrode metals; internally in the mouth they are astringent Sydenham used diluted spirits of vitriol in an Angina. they stop a too great flow of Saliva tho' alum or Borax is better used for that intent, in the Stomach they create an appetite are antiseptic, check the vinous & acetous fermentation allay thirst & prove sedative & astringent & in consequence of their stimulating the Stomach they prove Diuretic & Diaphoretic but in too great quantities they cause gripings & spasms &c; they are apt to cause a cough by their stimulating the bronchia in passing it & therefore should be used with caution in Hemoptoes.

Wine & Bar Water have an acid easily assimilated Fossil acids are the same with vegetable in their virtues but stronger & more powerful.

Sedative Salt has been reckoned powerful it may do good in a brin cough.

Salt of Amber has not much virtue & what it has depends upon the oil it contains. Nutrientia.

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Class 12.th Antiseptic.

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Antiseptics are such medicines as correct or prevent putrefaction on this head I shall refer you to D. Pringle Boerhaave Gosse & M. B. B. B.

Having thus considered such medicines as are called Alteratives we come now to speak of such as are called Evacuants these are supposed to act immediately on the fluids; all Evacuants are Stimulants some acting in general others upon particular Glands. The reason why different substances act upon different secretions is owing to their having a greater affinity & Elective attraction thereto.

Class 13.th Errhina.

These are useful in Rheumatic & other Disorders of the Head, & in some Disorders of the Eyes; their virtues cannot be particularly ascertained & I have no observations to make on them separately they are divided into fossil & vegetable & these again into Mitiora & acriora the best is asarum & Coccoloba; Snuff would prove a very good Medicine if not too frequently used by us it does hurt & therefore is just like Tea & Coffee.

Class 14.th Sialagogga Lect. 19.th

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The Salagogue Medicines are particular species of Stimulants employed to promote Saliva, & are pretty much the same as Errhina substances. They are either vegetable or fossil. The vegetable Salagogues act externally only, that is by Stimulating the Fauces when received into the mouth & thereby exciting a greater flow of Saliva: There is but very little difference between them only in strength. The Nicotiana might be used to good purposes if it was less abused by too frequent chewing. The Pyrethrum is the safest & best & is very good to draw off Rheum in the tooth ake.

The only fossil substance belonging to this Class is the Hydragyrus of w: we shall here speak at large.

Many have supposed that the operation of this fossil upon the glands of the mouth is solely owing to its breaking down & dissolving the fluids of the body by a mechanic force, but this notion is not greatly founded for no mixture in a moving state can be dissolved by any power acting upon it, & the mercury is too much divided to act by its weight, for even gold itself may be reduced to so fine a powder as to swim upon the surface of the water, besides the doses of mercury are in no kind of proportion to the density of the blood & the resistance to be overcome, since two or 3 grains are sometimes sufficient to raise a Salivation.

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Some have thought that the mercury acted from a septic property & that it induced a putrefaction into the blood, this they conclude from the fetor of breath persons under the operation of mercury are subject to. But the stinking breath arises solely from those ulcers in the mouth w^{ch} the saliva occasions by its corroding the fæces & the quantity w^{ch} commonly raises a salivation is much too small to bring on a putrefaction of the whole mass of blood. But what above all confirms us this cannot be the case is that blood drawn from a person in the height of salivation has often had an inflammatory appearance. So that we must conclude the putrefaction is wholly topical.

How then does Mercury act & only by stimulating the secretory Organs especially the Salivary glands w^{ch} causes them to pour forth their contents; it may likewise act from its acrimony, & that mercury even in its most bland state possesses an acrimony we prove from patients always complaining of the taste of Copper in their mouths when they first begin to spit.

Mercury when given in a large dose proves Emetic it is Sudorific, aperient, Diuretic & Deobstruent. It never operates in its crude state but commonly passes off by stool without having any effect unless it meets with an Acid in the Stomach that it does from the supposed doctrine of its acting by its momentum upon the fluids introduced

It into practice in its crude state about thirty years ago, & it was given with success in diseases w^{ch} we cured purely by the efforts of nature, he used it as a panacea in all diseases. When it is minutely divided it proves a powerful medicine. Mercury has sometimes been used as an Anthelmintic when boiled in water, it is hard to tell whether it communicates any virtue to water, but this we know that it is a most powerful Vermifuge when given in its fine preparations. All the preparations of Mercury with Sulphur such as Althions mineral Cinnaber of Antimony &c are inert & can be of no use unless the suffer a Decomposition from meeting with an acid in the prima via.

There are several preparations of mercury from its being combined with different acids, when united to the nitrous acid it is but weak, with the vitriolic acid it is more powerful as the Purpeth mineral which is much used as a vomit in the venereal cases. but when combined with the muriatic acid it is the most powerful of all as the Corrosive Sublimate the operation because of w^{ch} we are all no doubt well acquainted.

Althions mineral is least dangerous when given in large doses because it operates quicker & is sooner discharged.

from the Bowells, eight grains of it has sometimes been given with safety.

Could mercury be determined towards the Surface of the body to produce the same good effects thro' the pores of the skin that it produces on the Salivary Glands it would be a much safer & more agreeable medicine some have imagined that its more acrid preparations when given in small doses would make it prove Diaphoretic especially if the patient was kept warm whilst using it, much more might be said of it, Calomel in a few grains is very beneficial in Costiveness, it is commonly mixed with the other purgatives to quicken their operation.

In raising a Salivation we should begin with small doses of mercury & gradually increase them, so as to bring on the ptyalism slowly this is best brought about by unction according to D^r Astruc's manner.

Class 15.th Expectorantia.

Expectorants are such medicines as cause a discharge of mucus from the Bronchia the operation of pectorals is very uncertain; acrid substances are very often given in these cases but Boerhaave disuades ^{is from the} _{use of them}

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use of them, if pectorals do any service in diseases of the breast it must be from their Stimulating & antispasmodic qualities such as Musk Camphor &c.

The four first in the Catalogue marked (a) are called Verticillate their action depends upon their Essential Oil. Emula Campana has had many virtues ascribed to it, & it is certainly a very good medicine it contains a resin & an Oil on w^{ch} these virtues depend.

Iris when green is very acrid & heating inflammatory medicine, but when dry may be given with safety.

Nicotiana is too acrid & narcotic to be given internally. Squills are very acrid Stimulating & Emetic they are much in use they are good hydrogogues in a Dropsy, & prove purgative pectoral & Diuretic, they are best fitted for use when moderately dry at w^{ch} time they may be rubbed to powder with nitre.

Butter Burr & Coltsfoot are nearly alike in virtues as they are of the same species the Coltsfoot has been used in Scrophulous cases.

Gynoglossum

Benzoin & Storax Calamitis. The Benzoin is given in doses of a ʒi to ʒss.

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Res has an Emoryreumatic oil joined with it, it is nearly like turpentine, they have been reckoned pectoral but they seem to be too heating & are difficultly soluble in the Stomach especially Turpentine.

Scap must be given in large doses to have any effects.

Stimulantia of the Umbellatae & Siliquosa are pectoral the verticillatae are heating & Stimulating.

Antispasmodica Gums ammoniac & assafoetida are also pectoral.

Class 16 Emetica

Emetics are such medicines as excite vomiting we shall therefore consider the effects of vomiting. The first effect of vomiting is to throw off the contents of the Stomach the second is to increase the flow of Gastric Lymph from the glands of the Stomach, the third is to agitate & compress the abdominal viscera & thereby increase all the secretions. In the act of vomiting the peristaltic motion of the Intestines is inverted & bile is often thrown up, hence the good effects of vomits may be understood in a jaundice viz: by removing the mucus & other matter that obstructs the opening

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of the Ductus Choledochus & also by the violent agitation, dislodge stones in the biliary ducts & remove other obstructions. Vomiting by its convulsive agitation causes a great absorption, hence in Dropsies great quantities of water is often thrown up; they prove also Diuretic. During the act of vomiting the pulse is oppressed but immediately afterwards its motion is increased & the blood is sent to the Circumference hence they prove Diaphoretic, remove the Spasms of the Skin & stops perspiration & are therefore good in the beginning of Fevers.

Vomits powerfully remove obstructions of the viscera Scorbic &c. & I think they come nearest to a panacea of any thing I know of, however vomits are contraindicated in a putrid state of the body as in the Scurvy as also in a Cachexy in all unequal Distributions of the blood as in Hemorrhages & in congestions of the head as in an Apoplexy Palsey &c.

Water might have been set down in the Catalogue as it will vomit particularly if impregnated with Cha-
momile Horseradish &c.

Emetic Tartar is a very good vomit.

Butter of Antimony & mercurius Vitæ are very acrid & strong.
Grocers of Antimony & Diaphoretic antimony made in the com.

The first thing I should mention is that
the weather was very good today.
We went for a walk in the park
and saw many beautiful flowers.
The children were very happy and
played for hours. We also had a picnic
under a big tree. The food was
very good and we all enjoyed it.
We went home with many flowers
and a very happy memory.
The day was very nice and we
all had a good time. We will
go back soon.

2 more way are inert Calce 2 parts Nitre & one part Antim.
 :ony is almost inert & is the same with Tormes & ever powders
 Glass of Antimony & cruous metallorum act irregular, they
 are all Diuretic by Stimulating the Stomach.

Lecture 20th April 3^d 1766.

Class 17th Cathartica.

Cathartics are such medicines as operate by stool,
 they Stimulate the Intestines & thereby increase the
 Peristaltic motion of the Intestines & thus hurry on
 their Contents. Their action is communicated to the Li-
 ver, Spleen, & to all the alimentary Canal, by their
 action they increase the power of absorption & hence
 prove beneficial in Dropsies but if too long used they
 weaken the habit. They do not drain of all the humors
 from all the parts of the body for in the Lues venerea
 purges if ever so ^{often} long repeated will not cure the same
 without the use of mercury drastic purges in this case
 do more hurt than good, Gentle Laxatives being the be-
 st. Cathartics by revulsion carry off oppressions
 from the head & by causing a greater flow of blood
 thro' the descending Aorta to the Pelvis they prove
 beneficial in obstructions of the menses. Acids.

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Tructus Acido Dulcis viz: pruna, cassia fistularis, Tam-
arinds &c.

Serum Lactis Buttermilk & blanc Oils are mild &
lenitive & all operate nearly alike to these may be added
Honey Sugar Mannad:

Simple water has also a place here, it operates
chiefly by its bulk & quantity.

Animal Oils act by lubricating & softening the
Feces.

Venice Soap has its virtues as a purgative from its
pure oil & fossil alkali its mild & uncertain in its Oper-
ation Owing perhaps to its decomposition in the Sto-
mach dose $\mathfrak{zj}$ to $\mathfrak{zij}$.

Mustard Seed taken whole proves purgative $\mathfrak{zj}$ a day
moderately opens the belly, the powder of it in large doses
proves emetics.

Sulphur is neither acrid nor heating yet it mode-
rately evacuates & is good in Hemorrhoidal & uterine Hæm-
orrhages, if exposed to the air its Subject to a slight de-
composition & therefore should be close stopp'd for use.

Roses Violets & Polypody are gentle Lascatives the
two former are commonly given in form of a Syrup to
young children as also the Oil of Almonds.

Amara Calida.

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Bilis animalium This was intended by nature to help Digestion & to continue the peristaltic motion of the Intestines & therefore whenever it is deficient the body grows Costive.

Balsamics are good in habitual Costiveness from Spasms as Terebinth Bals. Copiva Gum Guaiacum which are the best.

Of Saline Substances Tartar is the weakest Cathartic next to it is Alkalis. Neutral Salts Stimulate sufficiently without heating they cause copious evacuations & are similar in their effects to bleeding they are antiphlogistic but not good in Hypochondriacs.

Soluble Tartar is of but little use.

Glaubers Salt & Sal Epsom

Magnesia Glaubers Salt is a moderate purgative. Digestive Salt is a very good purgative.

Regenerated Tartar has been reckoned good in the gout Rheumatism & other Chronic.

Those neutral Salts w^h are made with the vitriolic acid are better than those made with the murcatic Acid those made with a vegetable acid are detergent & Diuretic

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The following Cathartics are more acrid.

The Antispasmodic foetid gums are purgative & good in obstructed menses.

Aloes is purgative, Stomachic & Emmenagogue it is the basis of many compositions.

The following are Miscellaneous & very different in their manner of acting.

Agaric dose $\mathfrak{ss}$ to $\mathfrak{zj}$ acts weakly but not mildly at present its not used internally but externally its used to stop hemorrhages.

Rhubarb there are two sorts of it kept in the Shops, it is a mild & safe Cathartic it also acts as an Astringent & leaves the body Costive hence it is good in Diarrhoeas, Dysenteries & other Lax State of the bowels, purges best in substance dose $\mathfrak{z}\mathfrak{ss}$ to $\mathfrak{zj}$ when toasted its less purgative & more Astringent.

Butchers Broom is good in Dropsies.

Senne is stimulating & inflammatory & is best given in infusion

Black Hellebore is not so strong as has been thought.

The following viz. Mechocacan, Turpeth, Salap, Scammony, Soldanella, & Arthanita are species of the convallulus Salap is a very good purge, as is also Scammony when triturated with Sugar, its dose a $\mathfrak{H}$, the rest

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are scarce ever used.

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Gamboge is a drastic purge & good Hydrogogue
of *Topil batharics*.

Mercury & *Antimony* we have already taken notice
of: *Gold* has its virtues but not as a medicine. The
Ancients however used it as a medicine, but I believe
had it any virtues it would be too often adulterated, we
may say with *Lodovici* "It is better to make Gold out of
Medicines, than Medicines out of Gold"

Silver is too drastic for internal use.

Clap 18.th Diuretica

Diuretics do not alter the consistence of the fluids
but rather promotes the secretion of Serum, they act by
stimulus supposed to be a saline matter having an elect-
ive attraction to the glands of the Kidneys, their effects
in general are, that they discharge all serous, saline, & pu-
trid matter from the mass of blood.

Vegetable Diuretics belong chiefly to the Classes of
umbellata & *stellata*.

Under the Class of *Stimulantia* the *Urticillata* are
the most Diuretic.

(c) Anomalous Diuretics as all the *Syngenesia* & *Coniferae*
(d) *Sells*, the most powerful of these are the caustic fixed
alkalis saturated with an Acid.

Class 19.th Diaphoretica

Diaphoretics are of 2 kinds the first are such as increase perspiration the other such as produce sweat this last kind is more properly called Sudorifics.

Asafoetida according to Sanctorius is the very best Diaphoretic to increase perspiration.

Diaphoretics are good in the Venereal Disease & in Fevers, & it is the only secretion that will be increased merely by the increase of the bloods circulation independent of any stimulus. Sudorifics relax & remove spasms from the skin, & should be given in the beginning of Fevers; warmth greatly increases the action of Diaphoretics.

Diaphoretics act chiefly two ways 1.st by their Antispasmodic & 2.^d by their Stimulating qualities. The latter are chiefly employed in removing spasms. Those marked with the Letter (S) are Stimulants & those marked with the Letter (A) are Antispasmodics.

Class 20.th Menagoga.

Menagogues are such medicines as promote the menstrual flux in this there is one thing different from all the other secretions viz: that it never must be increased beyond its natural quantity.

As there have been many Theories invented to explain

This evacuation, so there have been many medicines that have been appropriated to the removal of the disorders they are liable to. The Obstruction of the menses mostly happen from spasms occasioned by Cold grief &c.

Medicines of this class are Divided into 3 kinds viz: astringents Stimulants & Antispasmodics.

of the first kind Iron & Peruvian bark are the best, of the second kind are Mercury, Aloes, the factitious gums, Musk, Castor, & Crocus, to these may be added such things as cause a greater flow of blood downwards as Semicupium Venesection in the foot &c.

of the third kind the factitious gums are also the chief, & best given a little before the expected time of the return of the Menses.

Catalogus Materia Medica.

Class 1.st Nutrientia.

Ex Vegetabilibus
 1. Fructus Acidus Dulcis
 a Drupaceis
 Cerasa Cherries

Malva Armeniaca, Apricots
 Malva Persica, Peaches
 & Pomacei
 Mala Hortensia, Apples.
 Pyra, Pears,

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1871

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c. Hesperides
Aurantia Oranges
c. Lenticosa

Fragaria, Strawberries
Rubi Idæi fructus, Raspberries

Uve vitis, Grapes
crispa, Gooseberries

Ribesia, Currants
fructus siccati

Uve passæ, Raisins & Currants

Dactyli, Dates

Ficus, Figs

2 *Fructus Cucurbitacea*

Cucumeris, Cucumbers

Melones, Melons

Pepones, Pumpkins

3 *Herba Oleracea*

Herba Esculenta

Atriplex, Orach

Beta, Beets

Spinacia, Spinach

Lactuca Agriua, Lamb's Lettice

Aligrosa

Brassica, Cabbage

Hasturtium, Cresses

Semiflasculosa

Cicorum, Cichory

Dens Leonis, Dandelion

Endivia, Endive

Lactuca, Lettice

Umbellata

Celera, Celery

Asparagus, idem

Cinera, Artichoke

4 *Tungi*, Mushrooms

5 *Radices Esculente*

Raphanus, Radishes

Rapum, Turneps

Umbellata

Daucus, Carrots

Psoralea, Parsnips

Marum, Shirrets

Semiflasculosa

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Scot.
Frag.
Belle
Corr.
Cep.
At.
f.
Ave.
Hob.
Sec.
M.
Tr.
Cry.
Ma.
Fag.
Ta.
Sag.
Sec.

Scorionera. viper grass
Tragopogon. Goats beard
Bettas, Potatoes
Porrum, Common leeks
Cepa, Onions
Allium, Garlic
f. Sem: Farinacea
Avena & *Sativa*. Oats
Hordeum & *vulgare*. Barley
Secale. Rye
Milium. Millet
Triticum. Wheat
Oryza & *Sativa*. Rice
Mays & *Lea*. Indian Corn
Lagopyrum. Buck. Wheat
Medulla Tamarosa
Palme arbores fraxiniferae
Sago, Sago
Radice Tarnosa
Scler & *Orchis* & *morio*. Salep

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Papilionacea
Legumina
Pisa & *Sativa*. Pease
Fabea & *vicia*. Beans
Phaseolus. Kidney Beans
Nuces Oleosa
Amygda dulc & Sweet Almonds
Avellana. Hazle nuts
 + *Cocca* & *Theobroma*. Cocoa
 + *Castanea* & *Lagus*. Chestnuts
Juglans & *regia*. Walnuts
Castacia & *vera* Pistachio
Oliva — Olives
 & *Potus fermentati*
Cerevisia — Ale
Vinum — Wine
 i Conchimenta et condita
Aromata
Sacharo — Sale
 vel aceto condita

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De Animalibus

a Lac. *Terminæ*

Asina

Equæ

vacca

Ovis

Capra

b *Quadrupedia*

Bos

Ovis

Capra

Cervus

Lepus - Hare & Rabbit

Sus - Hog

c *Aves*

1st *Gallina*

Gallus, Gallinaceus. Cock & Hen

Melegris Gallopavi. Turkey

Pavo Cristatus Peacock

Tetrao Perdix - Partridge

Coturnix - quail

Lagopus - grouse

Fetor, moor-powd

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Tetrao Urogallus. Tormahant

2^d *Anseres*.

Anas Domestica. Feme Duck

Moschata - Moscovy Duck

Boschus Major. Wild Duck

Zuerque dula - Teal.

Anser Domesticus Feme goose

Genis - Wild goose

Cygnus - Swan

Pelicanus Bafanus, Solongose

Alca tarda. Razor Cane

3 *Gralla*

Ardea. Heron & Bittern

Scelopase, woodcock, Snipe & Kurlaw

Tringa, Lapwing or Grey Plover

Charadrius, Green Plover

Mematorus Poyat, or Sea poy

Fulica, Coot

Rallus, Rail or S. Cemerake

Otis, Bustard or Goose-tard

4th *Passer*

Columba Pidgeon.

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1790

Jan 1st

Feb 1st

Mar 1st

Apr 1st

May 1st

Jun 1st

Jul 1st

Aug 1st

Sep 1st

Oct 1st

Nov 1st

Dec 1st

1791

Jan 1st

Feb 1st

Mar 1st

Apr 1st

May 1st

Jun 1st

Jul 1st

Aug 1st

Sep 1st

Oct 1st

Nov 1st

Dec 1st

Ala

La

Ge

Per
Ga

Turdus, Thrush.
Alda, Lark
Emberiza, Yellowhammer
 &c.

Pisces

Salmo, *Salax*, Salmon.
Trutta, Trout
Kucho, Bull- Trout
Alpinus, Charr
Perlanus, Smelt
Thymallus, Grayling: Ombre
Cyprinus, Carpus, Barb
Carpio, Carp
Gobio, Gudgeon
Tinca, Tench
Rutilus, Roach
Cephalus, Chubb
Alburnus, Bream
Brama, Bream
Perca fluviatilis Perch
Gadus ^{*aglefimpe*} ~~*fluviatilis*~~, Haddock
Merlangus, Whiting
Morhua, Cod
Molva, Ling

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Anthelmintics, or such medicines as destroy worms
 in the human body. The worms are no disease them-
 selves, yet they are the cause of many diseases in the
 system - They are always an object denoting altera-
 tion, as they not only increase & multiply, but share
 the aliment taken into the body, & thus deprive it of
 its usual & proper nourishment. The manner worms
 are generated in the body has afforded matter for various
 speculations & disputes - it is a common & vulgar opi-
 nion that worms & other insects are generated by pu-
 tridity & filth, - they hold the same opinion with re-
 gard to the generation of worms within the human
 body; but sound Philosophy rejects this Idea, even
 the most insignificant insect was formed by the
 same laws of nature with the Whale or Elephant. It is
 probable that we take in their eggs with our drinks or
 aliment; & what renders this opinion more certain is
 that the same species of worm is formed in some fish,
 & in some waters, as in the human body. It is a well
 established fact that boiling water does not always
 kill worms, or their eggs, & it is therefore no wonder that
 complaints arising from worms are so common, since
 we may every day take in the eggs of worms, many thou-
 sand perhaps in a single glass of water. It may be in-
 quired perhaps, what is the reason that every person is
 not subject to them? This is owing to the different
 habits, strength & constitutions of people. - Persons
 of weak & relaxed habits are apt to be affected with
 worms, whilst others of a robust constitution & good

digestion are seldom troubled with them. Women & weakly children with persons who lead a sedentary life are most liable to worms.

The human Species are particularly subject to 4 different kinds of worms - 1. Ascarides we are small white & pointed at both ends, like the maggots in cheese, - they are chiefly seated in the Rectum - they are quick in their motion & occasion an itching in the Anus. 2. The Lumbici are round & resemble the common earth worm in shape, but are almost white - they are generally 4 or 5 Inches long - they occur in considerable numbers. 3. The Tenea or Tape worm, so called from their being flat & resembling Tape - they are of great length & consist of a number of articulations; when these articulations are separate they are called Vormes cucurbitini, or Gourd worms; - each articulation has life, & the power of procreating. It is scarce credible to what length these worms will grow & extend themselves - instances have been recorded where they were an hundred yds long - they are in common from 10 to 100 feet long. As every articulation is a perfect worm, it is extremely difficult to expel it, if of any considerable size, for, if but one articulation remains, it will grow to a great size. The 4th species is the Ascarus lumbricoides - these are the common round worm pointed at both ends. Exclusively of these 4 species, no doubt others occur; but as these are uncommon ones, & scarce even distinguishable by symptoms, we shall not spend our time in treating of them. The diseases occasioned by worms are various & numberless - 1.st They share the Aliment taken into the body. Hence the voracious appetite

& uneasiness of those afflicted with them, when without food.
2^{dly} They frequently form a Nidus, w^{ch} extends the intestines
in some parts, & occasions contractions in others - This is the
cause of flatulencies Cholics & it has been known to occasion
the Malar Cassion. 3^d The filth they occasion in the Intes-
tines putrefies, & Diarrhoeas Dysenteries, & even fevers of
the malignant kind. 4. They penetrate thro the Intes-
tines into the Abdomen according to instances given by
Dr. Haller. 5th By their motion & friction in the bowels
they produce various disorders - They move from one point to
another to procure food & nourishment, or to avoid what
is hurtful to em. - They are injured by Salt, Smoked
meat, spiritous liquors, Wine, Sugar, & other sweet substances.
By their motion they irritate the inner coat of the Stomach
& intestines & produce Spasms & Cholics - Distentions of the
Abdomen, Nausea & Vomiting - Gripings, Diarrhoeas, & at
other times costiveness, with a number of other complaints
in the bowels - and from the connection & sympathy of
the different parts, & sometimes the whole body, They affect
it in the most surprising manner - They produce thus a
suppression of Urine - Palpitation of the heart - a Difficulty
of Swallowing - a loss of sight, ringing in the ears - an im-
pediment in the voice, & sometimes a total loss of it. a Hic-
-cough, digginess, Convulsions, Epilepsy & even Apoplexy.
It is therefore said with justice that no disease is so extraordi-
nary but what it may be occasioned by worms - And in-
deed if a patient is afflicted with any uncommon disease
the first question we are to ask is, whether at any time
he has been troubled with worms. - In the next place
we are to inquire into the symptoms in general by w^{ch} we may

know whether worms are present or not. & afterwards
the particular signs by w^h we may discover under
what species the patient labors.

The symptoms by w^h we judge worms are present are
an unhealthy or sickly colour of the face & countenance
a frequent change of colour from pale to red - a blue
ring ~~around~~ ^{under} the eyes - an itching of the Nose - frequent
head aches, w^h come on especially after meals - a quan-
tity of watery saliva in the Mouth upon waking in
the morning - a grinding or grating of the teeth during
sleep - an inclination to lie upon the stomach - the pa-
tients frequently found to sit upright in the bed during
sleep - a motion & noise is perceived in the mouth during
sleep - a thirst in the morning on waking - a noise in
the ears - sometimes an aversion to meat, but generally
a voracious appetite - foetid breath - frequent fainting,
vomiting, chizzings, difficult breathing - pains in
the belly - the belly swells - there is a rumbling
noise in the Abdomen, with a suction & motion
w^h the patient perceives tho' they cannot describe -
Sometimes a diarrhoea, sometimes constipation, & tho'
the patient takes much nourishment yet he cannot
thrive, & they are worse in the morning if they have
taken no supper the night before - They are worse
about the new & wane of the moon - they are often
vulnerable of an irritation in the rectum w^h frequently
occasions fainting - they are frequently troubled
with a Tenesmus - They are incapable of attending
to business, tho' they are at a loss to tell what
aills them - at times they cannot speak plain -

Some become delirious - some are afflicted with convulsions without any apparent cause - if then are but slight then is no appearance of froth in the mouth, otherwise they froth at the mouth - Some become rigid without sensation or motion they fall into a sleep & wake perfectly sensible, & complain of nothing but weakness - they recover slowly from any disease they are frequently troubled with palpitations of the heart. It is not however to be supposed that all these symptoms will take place in the same person, it is sufficient to denote the presence of worms therefore if some or many of these symptoms occur in the same person. I was therefore right in my judgement, when I concluded that a Girl 10 years of age had worms because she eat a good deal & still continued lean, & was none about the wane of the moon - Another child wasted away without any apparent cause, & did not complain of any thing in particular, & had no other symptoms of worms than that it was always found laying upon its belly in the morning (this is the most certain sign of the presence of worms) by a few doses of Calomel a small Tape worm came away. After we are once sure that worms are present, we ought next to enquire with what particular sort they are afflicted - The Tape worm occasions a suction in the Abdomen, & the patient perceives as if something alive was within him crawling along, & frequently voids by stool *Vermes cucurbitini*. The presence of the round worm is known by pain & griping in the Umbilical region. The Ascarides occasion an irritation in the rectum & a *Tenesmus*.

Having thus enumerated the different species of worms

& of symptoms by w. Their presence may be known
& by w. they may be distinguished from each other, we are
next to enumerate the remedies that expel, or destroy w.
Then are termed Anthelmintics w. are of 2 kinds, 1. Such
as by their immediate action upon worms destroy them as in
2. manner of poison 2. Such as act mediately, that is not in
2. manner of poisons, but by rendering their place of abode so
disagreeable as to induce w. to quit it.

Under the 1. head we rank Bitters, such as Rue, Wormwood, &
Wormseed. These are not so effectual as has generally been sup-
posed, & seldom expel worms unless combined with Mercury
or some more powerful Vomifuge. Bitters however may some-
times be of service without addition. I formerly told you weak-
ness of the Intestines predisposes to worms - Bitters by resto-
ring the Tone & increasing the peristaltic motion may in some
cases expel them. Bitters should always be given after
worms have been expelled to prevent their regeneration -
Purgatives may also be employed to expel worms - These
act in a double intention 1. By giving a stimulus to the In-
testines they occasion a griping & spasm by w. w. may be
carried off 2. By taking away the nourishment from w. worms
they weaken w. so that they cannot keep their hold. It is
better to administer Purgatives after some medicines have
been given that destroy worms. We should in this case em-
ploy those of the acrid stimulating kind, such as Jalap
Scammony & Calomel - Also Rhubarb & Senna are not ade-
quate to w. purpose - This proves that Bitters have no imme-
diate effect upon Worms - We shall next consider those
medicines as have a peculiar effect in destroying Worms.
These are divided into Mineral & Vegetable - And first
of the mineral - The weakest of these are the Saline Sub-
stances - These are divided into Acids & Alkalis & neutral

Salt - They do not kill worms quickly unless applied in a concentrated state, w^h is hardly possible - if given by w^h mouth they are so diluted in w^h stomach that they retain very little of the Saline stimulus when they arrive at w^h place of worms. I have frequently however relieved children afflicted with worms by w^h use of domestic medicines w^h is common Salt & Melasses, & have found it often as effectual as any other mode - A Teaspoonful of common Salt mixed with Melasses may be given every morning, more or less according to w^h effect produced. Sulphur, especially joined with Saline substances as in Hepar Sulphuris, will destroy worms. Then as some mineral waters w^h contain Hepar Sulphuris w^h are effectual in destroying worms, such as those of Harrowgate or Yorkshire. Sulphur is an Anthelmintic, even without being mixed with salt, & is used in this intention mixed with Melasses or Milk as a domestic medicine, & you will frequently find it effectual. Gun powder is a common medicine against worms amongst poor people - Its virtues depend upon the Sulphur & Nitre it contains. Ever since Mercury has been introduced into medicine it has been looked upon as powerful to destroy worms - It may be used in various forms. Some recommend the water in w^h crude mercury has been boiled but this is a very uncertain way of giving it, & it is supposed of little or no virtues. Perhaps mineral has little effect on the body as a medicinal medicine. The Sulphur entirely destroys the medicinal virtues of Mercury; probably if it produces any effect it is owing to the Sulphur it contains. The principal preparations of Mercury are Calomel & Corros Sublimat & few are more effectual in destroying worms. Calomel may either be given by itself or combined with other substances as Purgative medicines. Corros Subl. imp. dose of ʒss or ʒi is one of the most powerful Vermifuges, but it is not to be trifled with.

it is improper for children. Calomel may be given
in doses from 3 to 4 or 5 grs & repeated every 2^d. or 3^d. day.
Tin has been recommended as a vermifuge, but always in
powder - it is supposed by every Physician almost that
it acts mechanically by its w.^t pricking & irritating w.
worms. But it does not act altogether in this way - Tin
is dissolved by v. Acid of the Stomach & acts on the worms
as a poison - From Margraff's experiments it appears
that all tin contains Arsenic & it is probable that from
this circumstance it may have some effect in destroying
worms. Iron & the various preparations of it have been re-
commended against worms, & it has this advantage over other
remedies that it arrives at the Intestines unchanged -
Boerhaave dissolved ℥i of Sal Martis in ℥ij of water, & gave
v. quantity of This medicine at the same
time gives proper tone to the Stomach & Intestines. In
my own practice, I trust chiefly to the preparations of
Iron, & am very seldom disappointed - You may mix
the Sal Martis with prepared Steel & you will find it
an effectual remedy by continuing it a sufficient length
of time. A great variety of vegetables kill worms out
of the body - all foetid plants, & all such as are arom-
-atized with a Garlic or alliaceous smell destroy worms.
It is said that Garlic applied externally, as to the soles of y.
feet, will expel worms - Asa foetida is frequently used
with success. A clove of garlic warmed in ashes may be
swallowed whole, in the morning fasting. Carolina Pink
root, Bear's foot & Spizilia Anthelmuthia are all powerful
Vermifuges. Dr. Lining of Charles Town S. Carolina was, I
believe, the first that introduced the Carolina pink root
into practice. I have seen it often tried, & it was generally

successful as almost any other remedy. If given in too large a dose it occasions a Vertigo. It may be given either in powder or infusion - it has scarcely any taste & by adding milk & Sugar to it, children may be so deceived as to drink it for tea, the dose in substance is $\text{gr}^{\circ} \times \text{ij}$. Bear's foot is a plant that grows naturally in Maryland Virginia & the other Southern States & is cultivated in gardens about this City - this is perhaps one of the most powerful Vermifuges. Dr. Witt of Germantown was the first that used it near this City - & its effects rendered his powder celebrated - As it is very powerful it should be used in small doses - 2 or 3 gr° is a dose for a child 2 or 3 years old. Spizilia Anthel: grows wild in the East Indies - we were first made acquainted with its virtues by Dr. Brown in his natural history of Jamaica. He tells us that this medicine has been in use a long time. That among the Negroes & Indians it is called worm grass & he says that it is as effectual against worms as bark is against Intermittents. They boil 2 handfuls of fresh Herb in a qt° of water untill one half is consumed - They give one $\frac{1}{4}$ of the qt° at once to a grown person - it is best to give $\frac{1}{2}$ this quantity at once, & repeat it every 4 or 6 hours. If the person that takes it is a child, the dose should be still less & gr° interval longer as 12 hours - it promotes sleep with as much certainty as Opium, & when they awake the eyes appear distended, & sparkling or shining. Soon after the 1st dose the pulse becomes regular, the convulsions if there are any are removed, & the worms come away in large quantities, sometimes without any purgative being administered. It is very seldom that more than one dose of this medicine be required. Dr. Brown says he has

often succeeded with it when there was scarce reason to believe that a patient could be saved by any other means. A Decoction of y^e mince shells of our common Walnut are said to prove Vermifuge. I have had no opportunity of trying them, but I have reason to believe they will have this effect as they kill worms out of the body. Cow-itch grows in pods in y^e form of small reticulated points - its operation on the worms is mechanical, by its sharp points it irritates the worms, & thus renders their habitation uncomfortable to y^m. - It is commonly administered in substance in Syrup or Melapex. Horse hair cut fine acts upon the same principle, & may be administered with equal success. - The bark of the cabbage Tree in the West Indies is looked upon to be a very powerful Vermifuge - it is as powerful as most others. Oil of Olives or castor oil have been recommended to kill worms. They have been tho't to act by stopping up the foramina thro' w^{ch} it was supposed the worms perspired - but there is a wide difference between worms & Insects, & hitherto no such foramina have been discovered in worms, & it is not probable that they have such as they will live in water & not in air - it is impossible therefore that oil can act in this way - We shall now treat of the method of cure that y^e particular species require. The Ascariides as I have already said infect only the rectum - Saline & all sweet substances kill worms directly - Glysters therefore of Milk Salt & Sugar will often destroy Ascariides without any other medicine. The common people make a suppository of pork & introduce it into y^e rectum to draw out these kind of worms - This must be often repeated before a patient is relieved Gentle Laxatives will also destroy them

Nothing is more effectual than Glysters of Quicksilver but
as it is called with Hogs Lard.

The Lumbrici or round worms are not so easily expelled
as the former - the medicine for expelling them
worms should be given about breakfast time,
& if it is given in milk the worms will be more
greedy for it - The patient should not prepare the
portion himself - this is y^e opinion of some Physicians
- and, but I am not sure it is well founded - it is
better however to attend to it - If y^e patient soon
after taking the medicine is sensible of great pain - it
is probable that y^e worms are endeavouring to penetrate
thro' y^e Intestines into y^e Abdomen & the best application
is to rub the belly with petroleum - It is necessary
that the patient should abstain from a milk diet &
live upon salt meat for some time before taking these
medicines, he may also take a piece of salt herring
at night going to bed without taking anything after
it as they do not like this sort of food, the worms may
be dislodged with more ease than if this method is not
pursued - When there is reason to believe that all the
worms have been expelled Bitters may be given as To-
nics to prevent their regeneration - The Tinct of Bhu-
barb is better than any other remedy - when worms are
attended with fever we must use such remedies as will
destroy the worms & will at the same time remove the fever
such as Camphor & Vinegar - we may take Camphor ℥i
reduced into fine powder by means of y^e spirit of wine, Sugar
℥ij & good wine vinegar ℥viij, & give 1 or 2 Table spoonfulls
every 2 or 3 hours. The Tania or Tape worm is expelled with

more difficultly than any other as it is of great length & has
power of fastening itself on the Intestines by means of its
suckling tubes & will sometimes elude the powers of me-
dicine - Dr. Rouen a celebrated Physician in Sweden
ordered his patients afflicted with this worm to live for
some weeks on salt meat before he administered any
medicine to expel it - he then prescribed some one of
the medicines w^h I have mentioned, & when he
thought the worm was got low down ⁱⁿ the abdomen
he administered a smart purge of Jalap & Colomel
& ordered his patient to drink plentifully of cold
water - You are to observe that cold water will
deprive this worm of all sense & motion - I have
known this method succeed several times, & I
have seen a Tape worm between 30 & 40 feet long got
away in this manner. Dr. Hasselquist in his Tra-
vels to the East tells us that the Inhabitants of
Grand Cairo are very much afflicted with the Tape
worm, & that to expel them they take Petroleum.
If the worm does not come away by the first dose
they repeat it again, & are seldom disappointed in
their hopes of a cure. In my own practice, in every
species of worm, except the Ascarides, I seldom use
any other medicine than the Chalybeate preparations
with Sal Martis, & I use the Chalybe in much lar-
ger dose than it is commonly employed. I frequent-
ly exhibit it to grown people at the dose of ℥ss or
℥i twice a day - gr^{ss} or v of Sal Martis may be
combined with each dose.

Of The Cold Bath.

The human body being subject to various diseases from the sudden vicissitudes of heat & cold with many other causes, all means for the cure or mitigation of them deserves our serious consideration, as health is the greatest blessing & gives a relish to all our enjoyments, while on the other hand disease is nothing but misery & pain even in the midst of all the other enjoyments of Life.

The Supreme being has wisely ordained many things for the use of man not only for his nourishment & support, but also for the curing or alleviating of diseases; among the latter the simplest are oftentimes the most efficacious, thus cold water tho' very simple & common is yet endowed with many medicinal qualities. I shall here only speak of its effects in bathing, having already mentioned its effects when taken internally elsewhere.

Cold Bathing is very ancient, being used in Egypt & the eastern countries in very early ages, but Pythagoras first brought it into Greece where it was afterwards used upon almost all occasions.

In order to the better understanding the nature of cold bathing I shall first take notice of the effects of heat & cold upon the human body. Cold condenses the fluids, causes a stronger cohesion & greater oscillation of the solid with a greater momentum of the fluids, from whence ensues a greater attrition & heat. On the contrary heat rarefies & evaporates the fluids, causes a too great relaxation & debility of the solids, hence a reverse circulation, obstructions & viscosity of the humors, & a languor both of body & mind; Cold externally applied constricts the

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cutaneous capillary vessels & drives the blood to the internal parts & brain. This being permised its easy to account for the good effects of this valuable Catholicon. Cold Bathing constricts & causes a concussion of the Nerves, strengthens the Glands & Muscles, cures feverish dispositions, helps digestion, invigorates both the body & mind, & strengthens the imagination, hence it must be beneficial in a lethargy & weakness of the blood after intermittent remittent or continued Fevers, in cutaneous diseases, in Spasms, Ulcers, Hemorrhages, of the Nose & Uterus, simple Gonorrhoeas, Priapisms, Defluxions of the Lungs, & palate, The Rhinorrhoea, Catarrhs, nocturnal Emissions, vague rheumatic, scorbutic & nervous pains, in nervous diseases as the Epilepsy; Tetanus, Numbness, Mania, Hydrophobia, Hysterics & Dumbness, lastly in Obstructions of the Viscera, in Nausea, Faintings, Gripes &c.

But the Cold Bath is improper in an inflammation of the blood or any of the Viscera, in a plethora, Phreny, in the beginning of putrid Fevers &c.

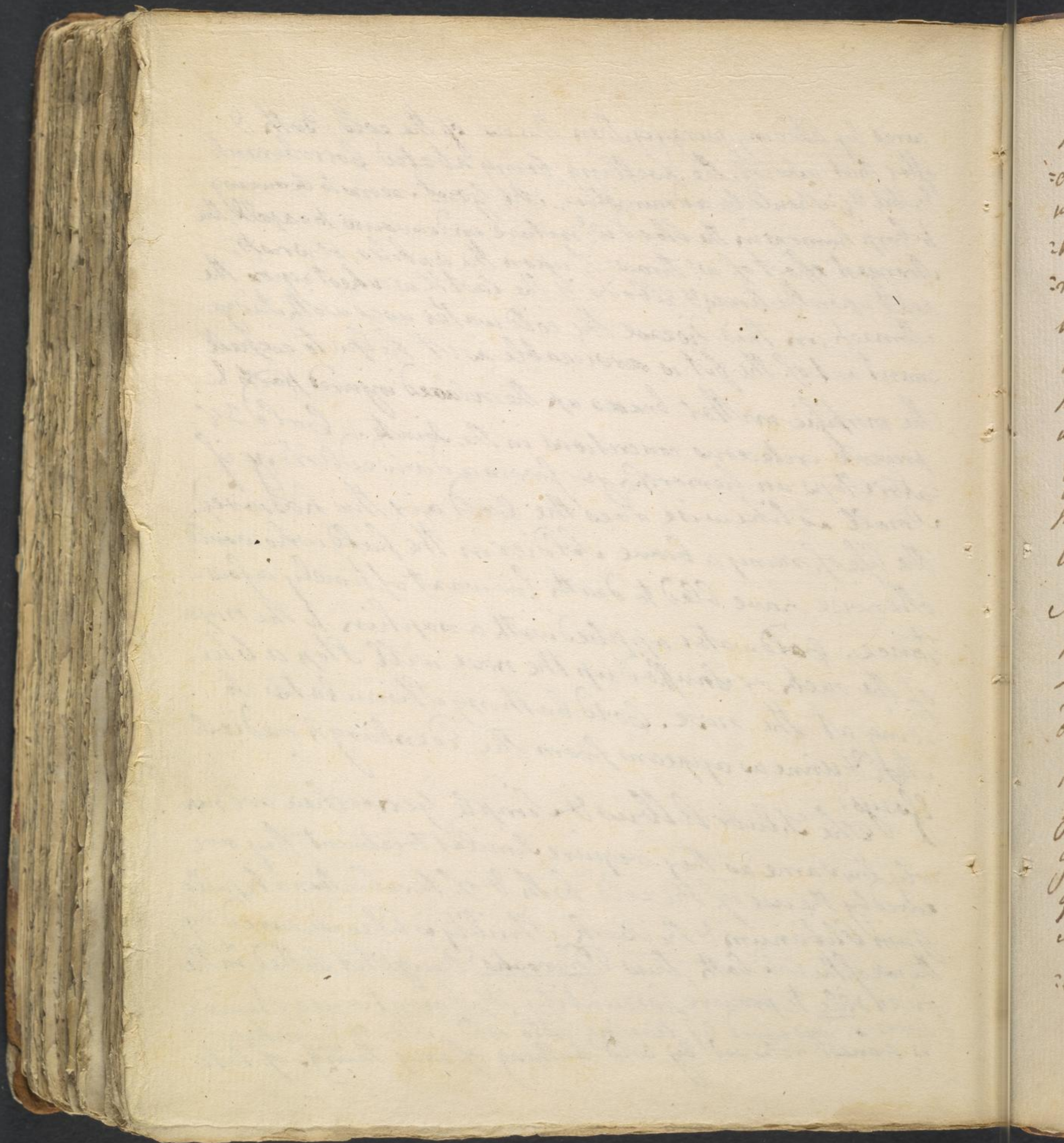
The common manner of using the cold bath is by immersing or pumping.

It is a good practice to Shave the head & wash it in cold water often as it strengthens the animal faculties, encourages perspiration & prevents & cures the Head ach, tooth ach, ear ach, &c. Cold water is serviceable in ophthalmias after bleeding, also in asthmatic, rheumatic & gouty cases. The Rheumatism is an old English disease & is best

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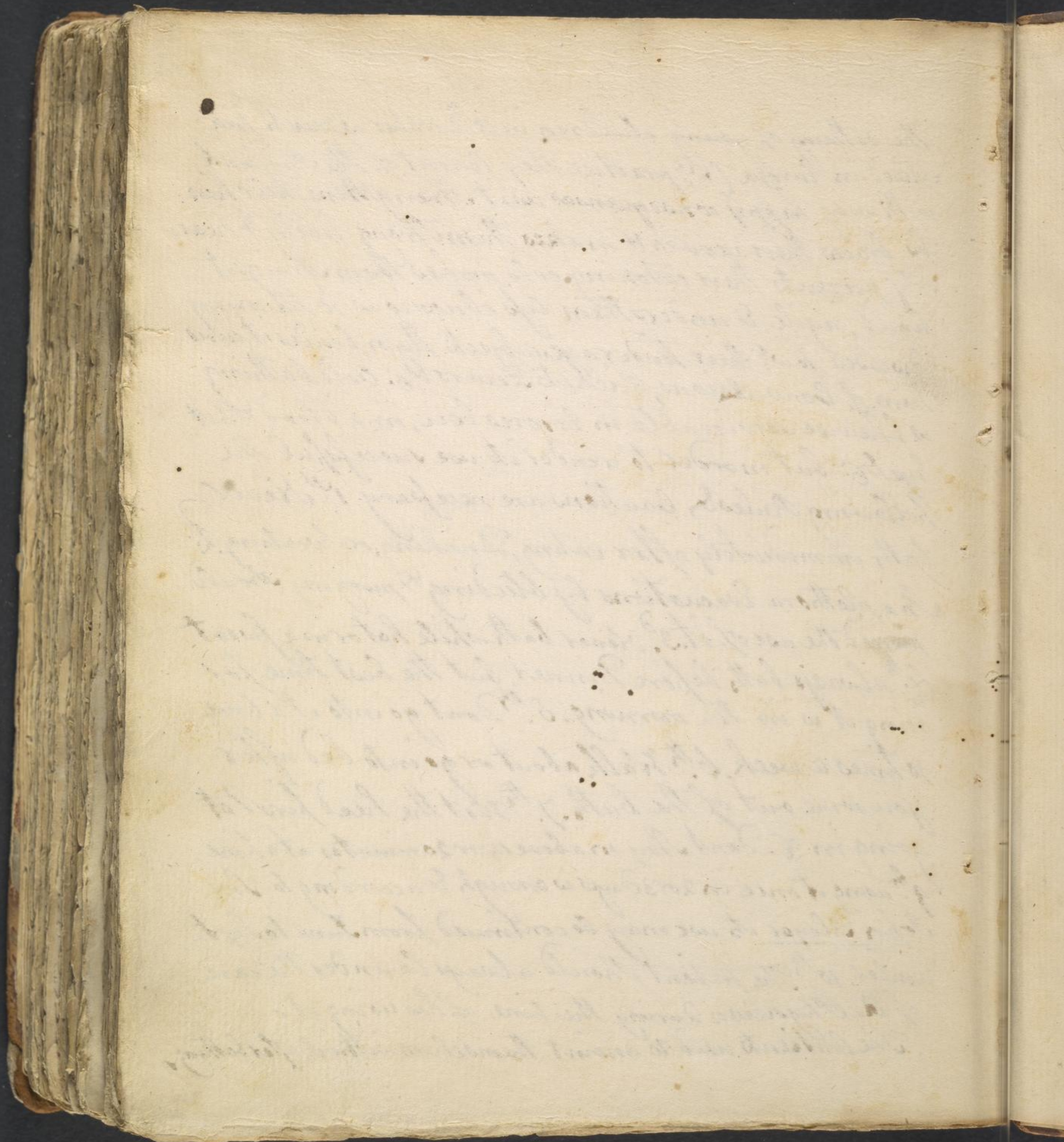
cured by bleeding purging, then the use of the cold Bath & after that sweat, the swelling being abated corroborants & Mal & should be administered. The Gout seems to be owing to sharp humors in the blood w^{ch} nature endeavours to expell, the strongest effort of w^{ch} throws it upon the ancles, or wrists, next upon the knees & elbows, & the last & weakest upon the stomach, in this disease the cold water used with Judgement out of the fist is serviceable as it helps to expell the morbid matter braces up the relaxed injured parts & prevents cretaceous concretions in the joints. Cold St^{ops} an hemorrhage from a divided Artery if small as likewise does the cold air this has saved the life of many a brave Soldier in the field who would otherwise have bled to death for want of timely assistance. Cold water applied with a napkin to the nape of the neck or snuffed up the nose will stop a bleeding at the nose. Cold bathing stimulates to the & urine as appears from The Edinburgh medical Essays.

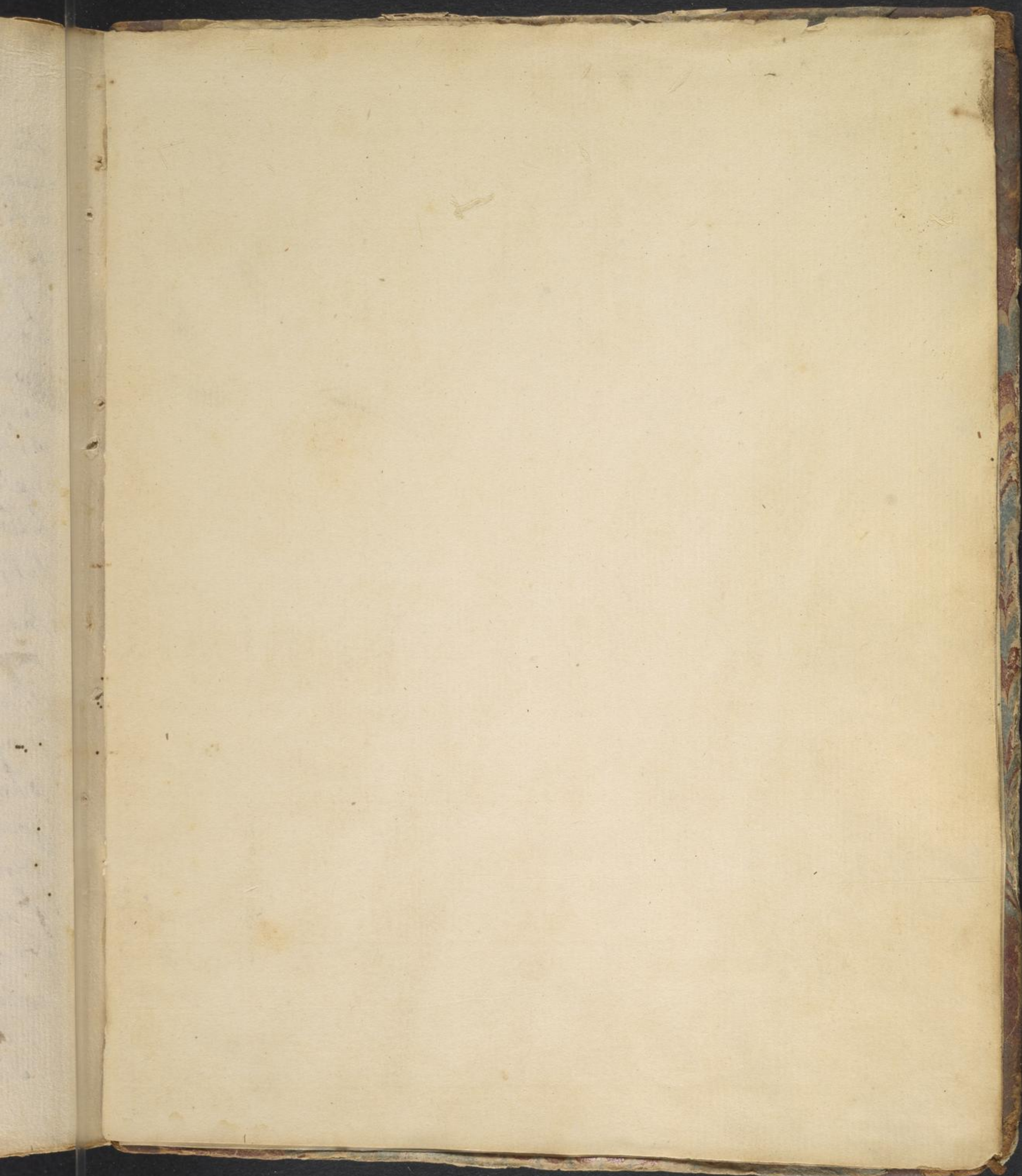
The Fluor Albus & Simple Gonorrhoea are nearly the same as they require similar treatment, they are cured by the use of the cold bath & of terebinthinate pills Gum Olibanum & the Bark. Sterility is likewise cured by the use of the cold bath, thus Pharoah's Daughter bathed in the river Nile to procure fecundity. Helmont says a Maniac person was cured by leaping into cold water & Drunkenness is soonest relieved by cold bathing of any thing ^{way} of late

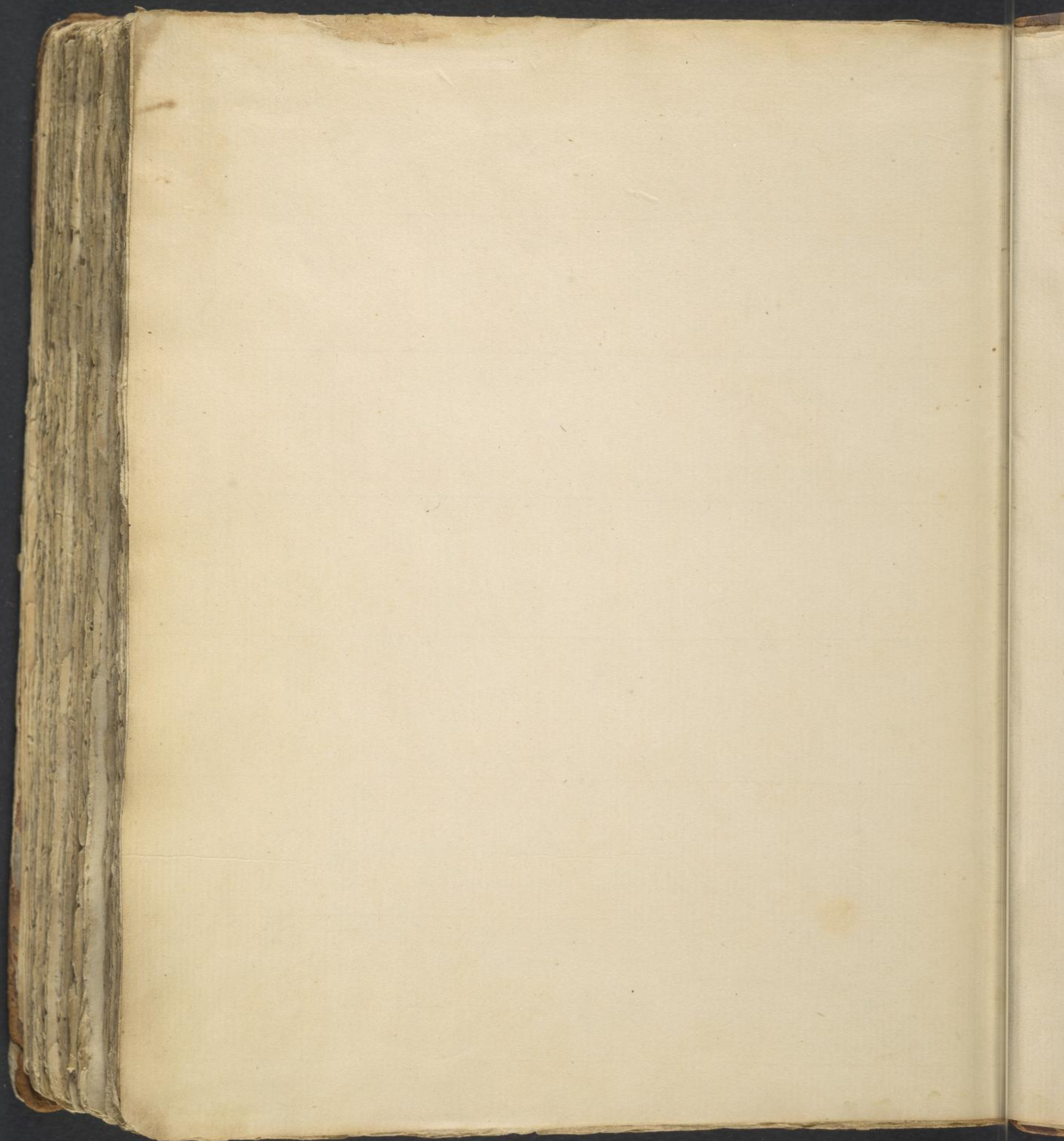


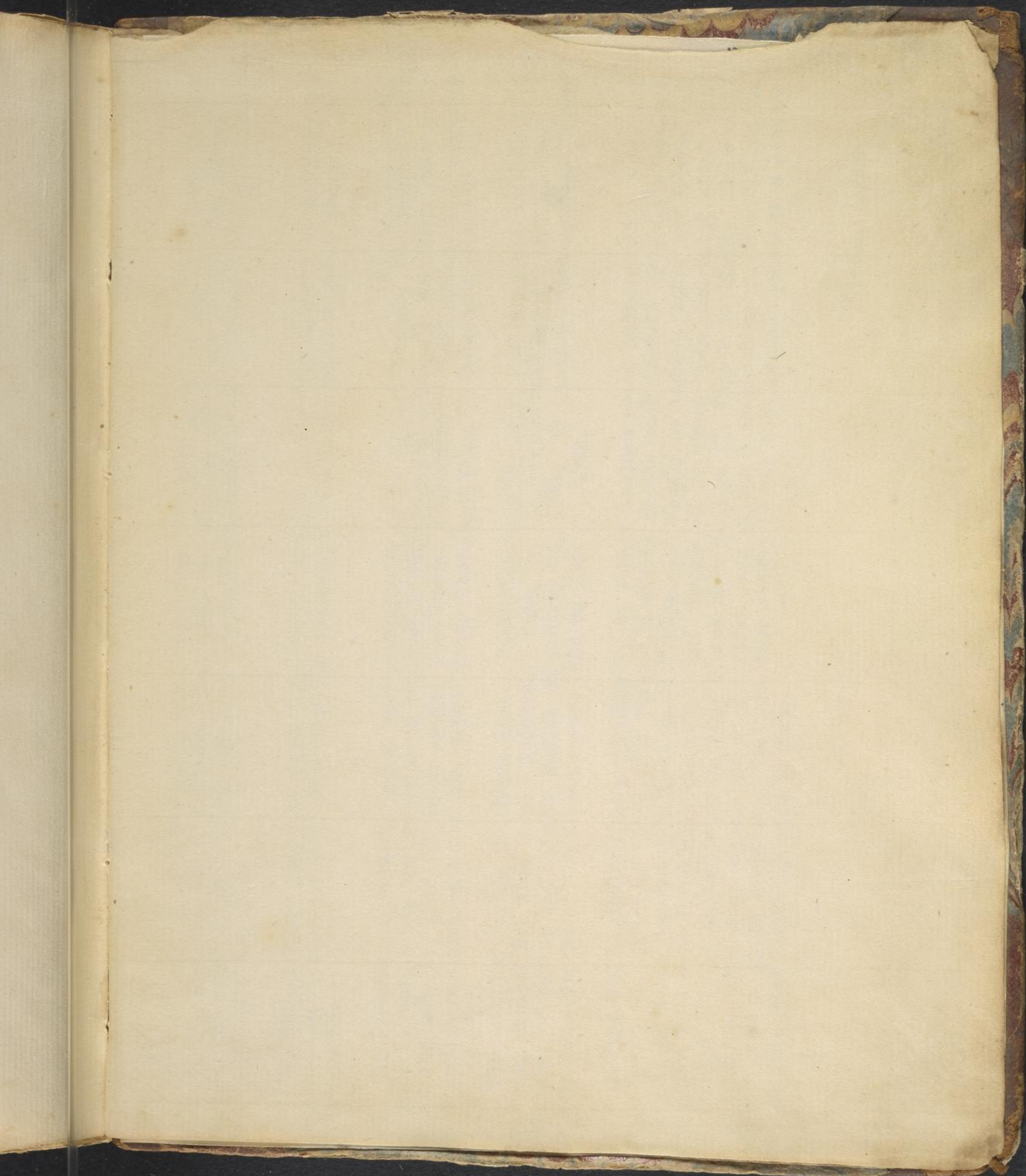
the bathing of young children in cold water is much pra-
ctised in Europe (the practice they learnt of the Indians)
with very happy consequences as it strengthens their limbs
it braces their nerves & makes them strong lively & hearty
it prevents their catching cold, makes them straight
limbed, agile, & renders them less obnoxious to the many
diseases to which their tender age subjects them, besides it cures
them of Convulsions, Rickets Fevers &c. Cold bathing
is likewise serviceable in Errores loci, in a blood Hot
Eye &c. but in order to render its use successful the
following Rules & Cautions are necessary 1.st Never
bath immediately after eating, Drinking, or sweating. 2.
In a plethora Evacuations by bleeding & purging should
precede the use of it. 3.rd Never bath while hot or in a sweat.
4.th always bath before Dinner, but the best time for
doing it is in the morning. 5.th Don't go into it above
10 times a week. 6.th Walk about or go into bed after
you come out of the bath. 7.th Wet the head first not
going in. 8.th Don't stay in above 15 or 20 minutes at a time.
9.th using it once in 2 or 3 days is enough & according to Sir
John Blower its use may be continued from June to Sept-
ember. 10.th The patient should always be under the care
of the Physician during the time of his using it.

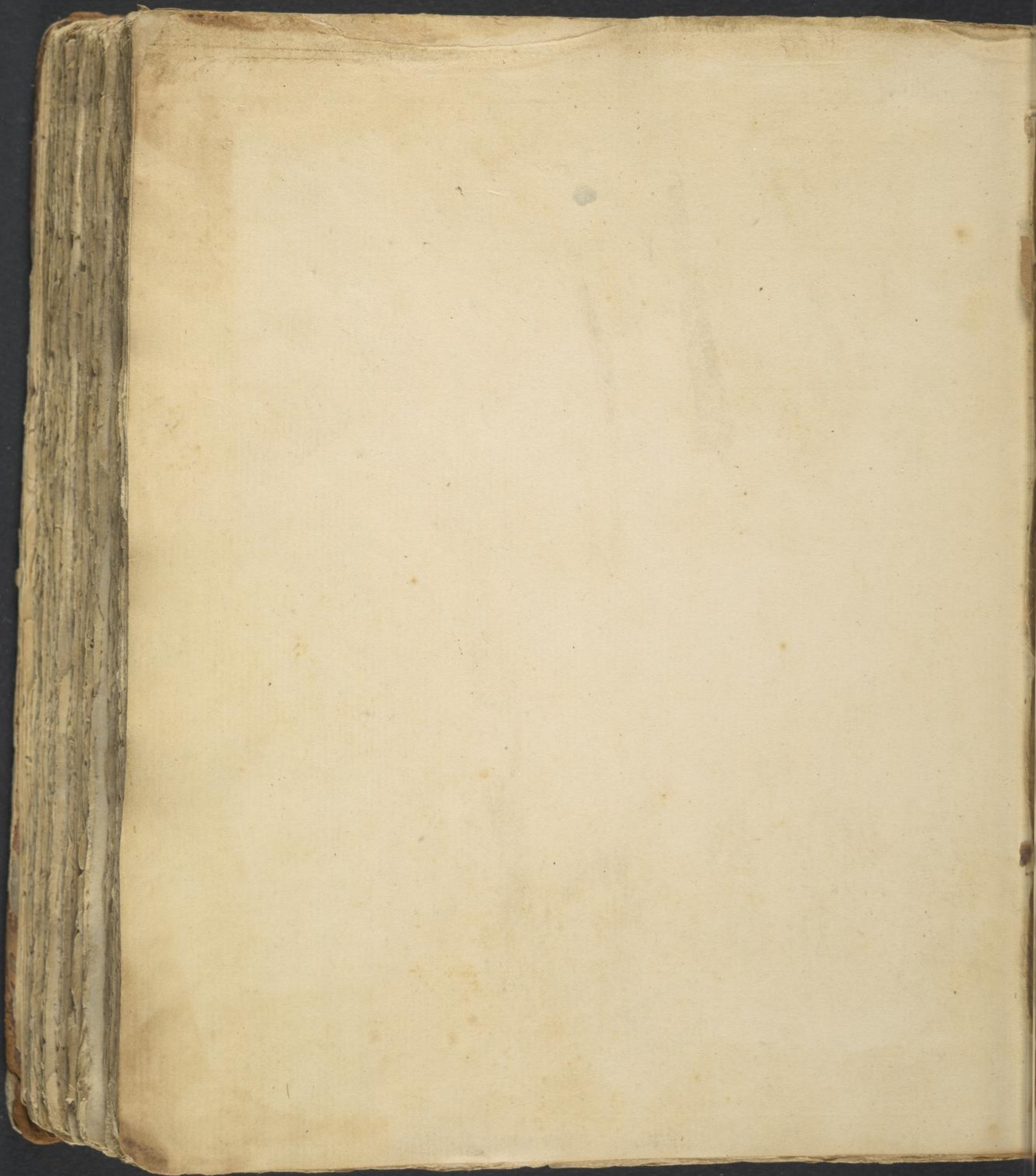
The infants used to anoint themselves with oil after bathing.











In this book we have the notes taken from the

In this book we have the notes taken down from lectures given in the first year of the Medical School's existence, 1765-66. That year the Faculty consisted of but John Morgan and William Shippen, Jr. These notes were undoubtedly written by Jonathan Elmer who received his B.M. degree in 1768.

Dr. Walter Elmer compared these notes with examples of Jonathan Elmer's handwriting and found them similar. The book came from the library of Paul Elmer More, a great grandson of Jonathan Elmer.

The lectures on Materia Medica were undoubtedly given by John Morgan, who ^{had announced that} began his course on Materia Medica and the Practice of Physick ^{on November 18, 1765.} As the first lecture is dated February 14, 1766, it would appear that Morgan ^{or May} started his first course with lectures on Practice and then later in the school year, began lecturing on Materia Medica. ^{until}
Feb. 14-1766

The notation inside the front cover, "Anthelmintics Dr. Kuhn 293" suggests that Elmer attended some of Dr. Adam Kuhn's lectures. Kuhn, on his return from Europe, was elected Professor of Botany and Materia Medica on January 26, 1768. He lectured that spring. Elmer received his degree at the Commencement held on June 21, 1768.

On Page 293 begins the notes presumably on Kuhn's lecture about Anthelmintics delivered probably in the spring of 1768. The first two sheets in the book contain notes of a lecture probably by Kuhn, beginning "A Medicus sivi Physician should be modest, sober and humane, and should be well acquainted with the nature and changes of ye human body, Pharmacy, etc." This is on Page III and is continued on Page IV and then on Page II, Page I is blank. Elmer did not number these first four pages, but on the fifth page of the book which he numbers "1" begins the notes on Morgan's lectures. The last four sheets in the book contain notes of a lecture on the Cold Bath, probably also by Kuhn.

William Elmer 1938

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